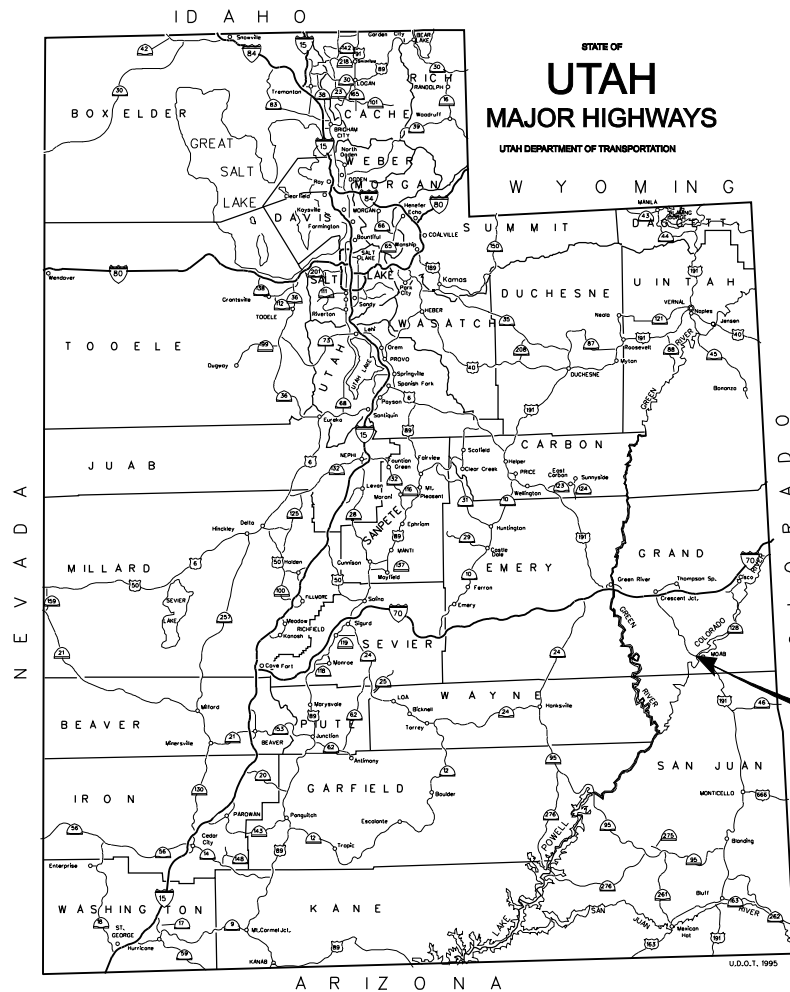


90% PRELIMINARY PLANS

ALL INFORMATION CONTAINED WITHIN
IS TO BE CONSIDERED PRELIMINARY

NOT FOR
CONSTRUCTION

\\fs1c03\2507-slc-colorado-bridge\5365_07-sheet_files\title_index\5365_titleSheet.dgn 8/5/2008



UTAH

DEPARTMENT OF TRANSPORTATION

SEE SHEET 1A FOR INDEX TO PLAN

SHEET
NO.
1

U.S. Standard Units
(Inch-Pound Units)

ALL UNITS IN FEET UNLESS
OTHERWISE NOTED

PLANS OF PROPOSED STATE ROAD
FEDERAL AID PROJECT

BRF-0191(58)129

US-191: OVER COLORADO RIVER BRIDGE

BRIDGE REPLACEMENT

GRAND COUNTY

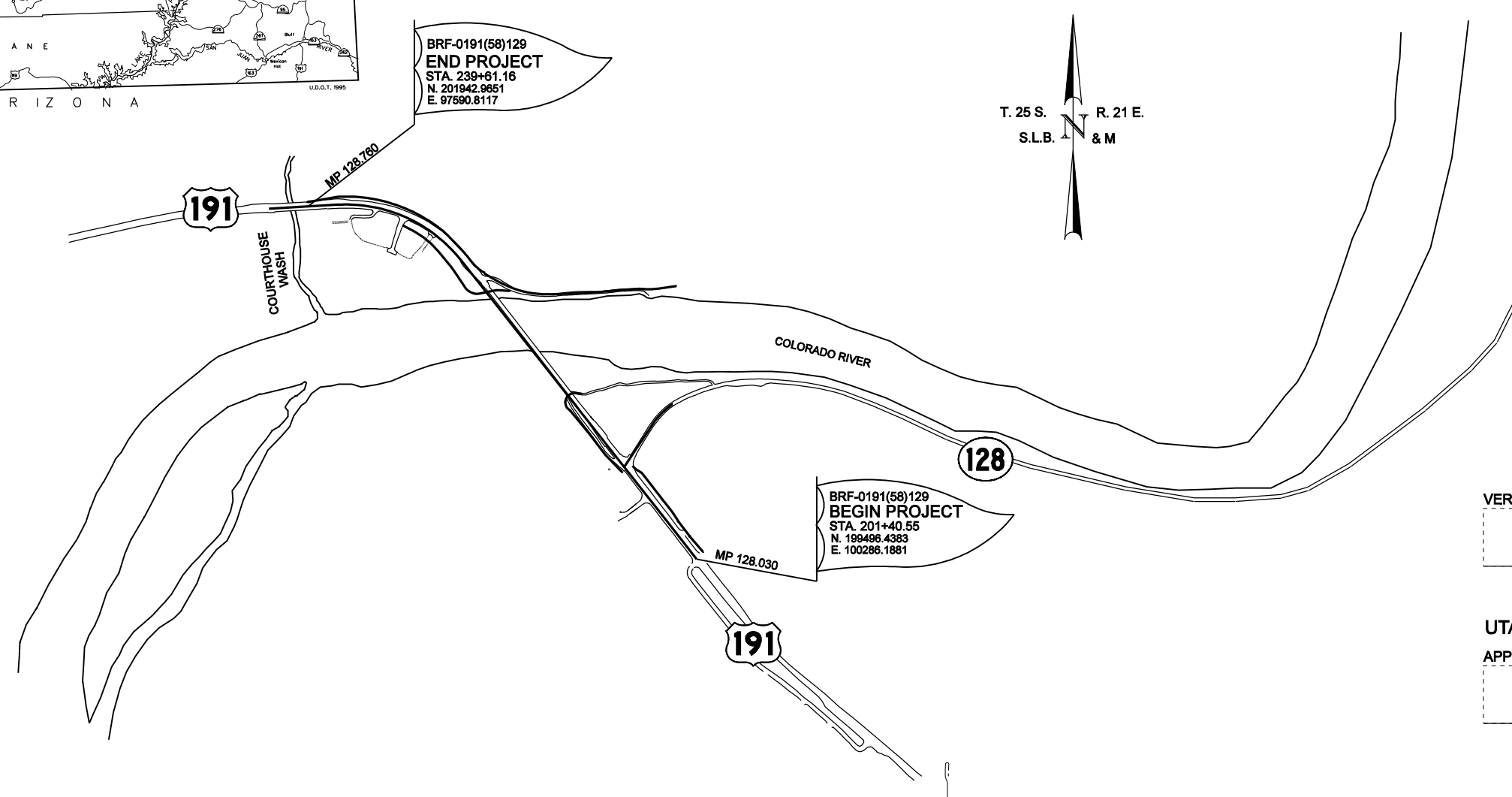
LENGTH 0.716 MILES

MP 128.030 TO MP 128.760

BRF-0191(58)129

BRF-0191(58)129
END PROJECT
STA. 239+81.16
N. 201942.9851
E. 97590.8117

T. 25 S. R. 21 E.
S.L.B. & M



THIS SEAL APPLIES TO ALL SHEETS
CONTAINING THIS SIGNATURE

VERIFIED FOR SUBMISSION FOR ADVERTISEMENT

DESIGN ENGINEER

UTAH DEPARTMENT OF TRANSPORTATION
APPROVED FOR USE BY UDOT

REGION 4 PRECONSTRUCTION ENGINEER

8/6/2008 C:\Projects\Moab\5365_08\SHEET FILES\Roadway Design\5365 F-763 A1 INDEX TO SHEETS.dgn

INDEX TO SHEETS

ROADWAY DRAWINGS		
SHEET NO.	NUMBER OF SHEETS	DESCRIPTION
1	1	TITLE SHEET
1A	1	INDEX TO SHEETS
1B	1	CROSS REFERENCE SHEET
SC-01	1	SURVEY CONTROL
CT-01 to CT-03	3	HORIZONTAL ALIGNMENT CONTROL SHEETS
SM-01 TO SM-17	17	SUMMARY SHEETS
TS-01 to TS-02	2	ROADWAY TYPICAL SECTIONS
TS-03 to TS-04	2	TRAIL TYPICAL SECTIONS
SDT-01 to SDT-02	2	SIDE SLOPE DETAILS
DT-01 to DT-17	17	DETAIL SHEETS
RM-01 to RM-07	7	REMOVAL PLAN SHEETS
RD-01 TO RD-07	7	ROADWAY PLAN SHEETS
RP-01 to RP-04	4	ROADWAY PROFILES
TP-01 to TP-04	4	TRAIL PROFILES
UT-00	1	UTILITY CONTACT SHEET
UT-00A	1	S.U.E. TEST HOLE DATA
UT-01 to UT-05	5	UTILITY PLAN SHEETS
DD-01 TO DD-05	5	DRAINAGE DETAILS
DR-01 to DR-06	6	DRAINAGE PLAN SHEETS
SS-01, SS-02A, SS-02B to ST-07	8	SIGNING AND STRIPING PLAN SHEETS
1	1	RIGHT-OF-WAY PLANS TITLE SHEET
RW-B1, RW-C1, RV-01 to RW-10	12	RIGHT-OF-WAY
RW-11	1	RIGHT-OF-WAY DETAILS
RW-12	1	RIGHT-OF-WAY SUMMARY

STRUCTURE DRAWINGS		
STRUCTURE NO.	DESCRIPTION	SHEETS
F-763	BRIDGE PLANS	190
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

WALL DRAWINGS		
SHEET NO.	DESCRIPTION	SHEETS
R-545	MSE WALL R-545 PLANS	14
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

EXISTING BRIDGE DRAWINGS (FOR INFORMATION ONLY)		
STRUCTURE NO.	DESCRIPTION	SHEETS
C-285	EXISTING BRIDGE PLANS	17
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-	-	-
-	-	-

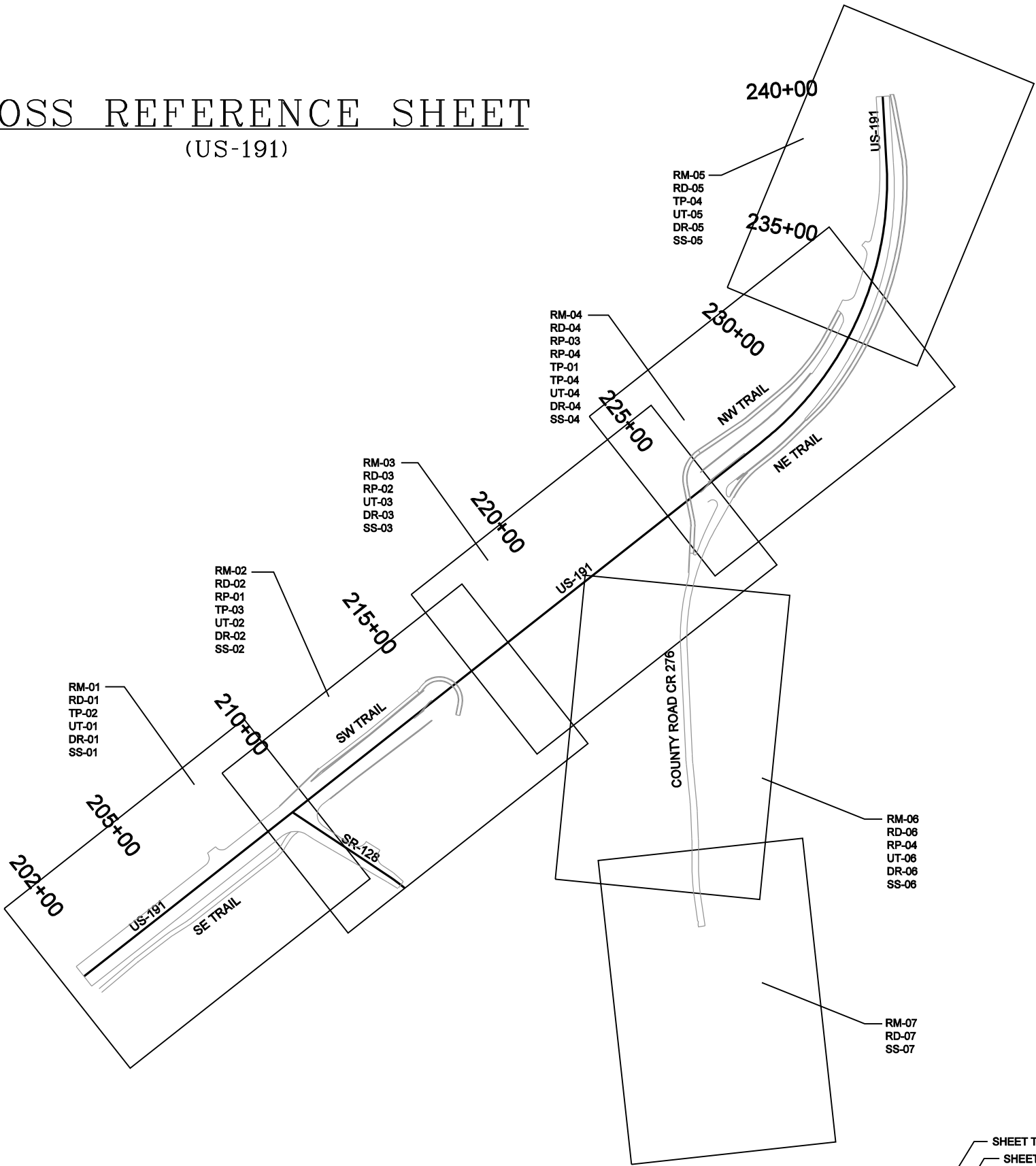
SCOUR ABATEMENT AND REPAIR DRAWINGS (FOR INFORMATION ONLY)		
STRUCTURE NO.	DESCRIPTION	SHEETS
C-285	SCOUR ABATEMENT AND REPAIR PLANS	2
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT		US-191; OVER COLORADO		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB UTAH			
		BRF0191(85)129			
		INDEX TO SHEETS			
		APPROVED			
		PROFESSIONAL ENGINEER			
		MM/DD/YY			
		DATE			
		DRAWN BY			
		QC			
		CHECKED BY			
		DATE			
		APPROVED BY			
		NO.			
		REMARKS			

8/5/2008 \\FSS\003\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\TITLE_INDEX\5365_1C-CROSSREFERENCESHEET.DGN

PRELIMINARY
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CROSS REFERENCE SHEET
(US-191)

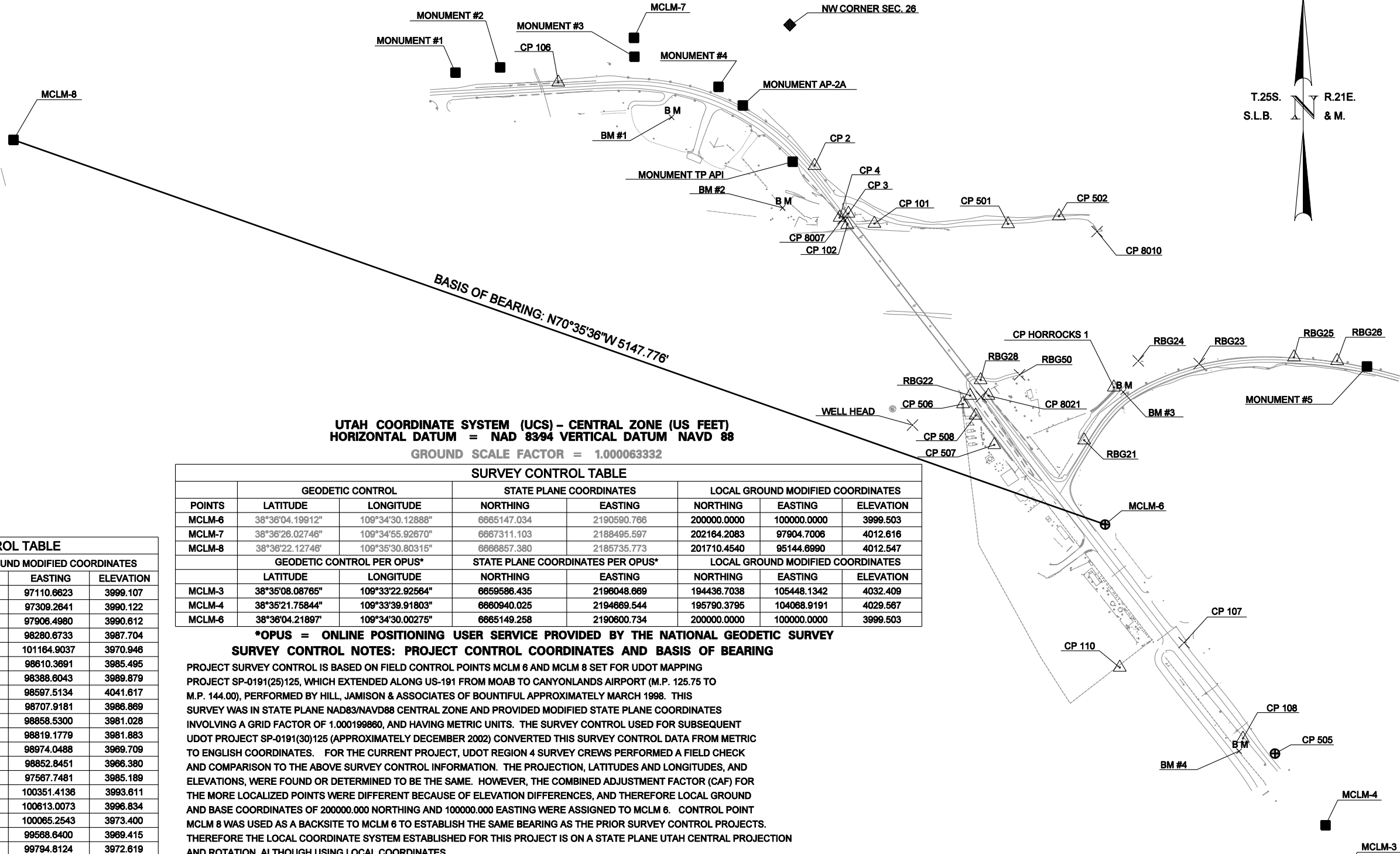


LEGEND:
RM=REMOVAL PLAN SHEET
RD=ROADWAY PLAN SHEET
RP=ROADWAY PROFILE
SS=SIGNING AND STRIPING PLAN SHEET
UT=UTILITY PLAN SHEET
DR=DRAINAGE PLAN SHEET
TP=TRAIL PROFILE

UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS		APPROVED BY		DATE		REMARKS	
ROADWAY DESIGN		DRAWN BY		QC		CHECKED BY		DATE	
APPROVED		PROFESSIONAL ENGINEER		DATE		DATE		DATE	
US-191; OVER COLORADO		RIVER BRIDGE - MOAB, UTAH		BRF-0191(58)129		CROSS REFERENCE SHEET		1B	
PROJECT		PROJECT NUMBER		SHEET NO.		1B			

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SURVEY CONTROL TABLE			
POINTS	LOCAL GROUND MODIFIED COORDINATES		
	NORTHING	EASTING	ELEVATION
MONUMENT #1	202009.3162	97110.6623	3999.107
MONUMENT #2	202032.7750	97309.2641	3990.122
MONUMENT #3	202080.1393	97906.4980	3990.612
MONUMENT #4	201946.2293	98280.6733	3987.704
MONUMENT #5	200702.7912	101164.9037	3970.946
MONUMENT TP API	201613.2430	98610.3691	3985.495
MONUMENT AP-2A	201863.5756	98388.6043	3989.879
NW CORNER SEC. 26	202569.1019	98597.5134	4041.617
CP 2	201595.4580	98707.9181	3986.869
CP 3	201383.2062	98858.5300	3981.028
CP 4	201364.7004	98819.1779	3981.883
CP 101	201338.1664	98974.0488	3969.709
CP 102	201333.3687	98852.8451	3966.380
CP 106	201966.1865	97567.7481	3985.189
CP 107	199474.9235	100351.4136	3993.611
CP 108	199048.7185	100613.0073	3996.834
CP 110	199364.3788	100065.2543	3973.400
CP 501	201336.4452	99588.6400	3969.415
CP 502	201371.1634	99794.8124	3972.619
CP 505	198981.5951	100755.6402	4006.153
CP 506	200535.8985	98368.2495	3969.097
CP 507	200354.2214	99507.0877	3968.958
CP 508	200484.9851	99424.3742	3968.515
CP 8007	201360.6401	98834.5256	3985.470
CP 8010	201302.7194	99964.3324	3973.943
CP 8021	200573.3073	99481.0709	3986.246
BM #1	201811.6571	98070.9086	3987.930
BM #2	201408.6618	98564.6364	3968.570
BM #3	200589.7139	100079.8939	3976.778
BM #4	198982.6717	100595.4365	3986.984
RBG21	200375.0228	99906.9887	3983.247
RBG22	200573.4051	99399.7970	3975.074
RBG23	200715.8646	100418.5252	3973.970
RBG24	200727.7443	100147.6909	3971.181
RBG25	200743.9013	100840.1643	3969.566
RBG26	200727.8948	101032.2123	3970.361
RBG28	200642.5908	99446.4309	3968.238
RBG50	200665.9549	99619.6168	3972.851
CP HORROCKS 1	200610.2514	100038.8177	3971.940
WELL HEAD	200442.2917	99143.3292	3963.306



SURVEY CONTROL TABLE						
POINTS	GEODETTIC CONTROL		STATE PLANE COORDINATES		LOCAL GROUND MODIFIED COORDINATES	
	LATITUDE	LONGITUDE	NORTHING	EASTING	NORTHING	EASTING
MCLM-6	38°36'04.19912"	109°34'30.12888"	6665147.034	2190590.766	200000.0000	100000.0000
MCLM-7	38°36'26.02746"	109°34'55.92670"	6667311.103	2188495.597	202164.2083	97904.7006
MCLM-8	38°36'22.12746"	109°35'30.80315"	6666857.380	2185735.773	201710.4540	95144.6990
	GEODETTIC CONTROL PER OPUS*		STATE PLANE COORDINATES PER OPUS*		LOCAL GROUND MODIFIED COORDINATES	
	LATITUDE	LONGITUDE	NORTHING	EASTING	NORTHING	EASTING
MCLM-3	38°35'08.08765"	109°33'22.92564"	6659586.435	2196048.669	194436.7038	105448.1342
MCLM-4	38°35'21.75844"	109°33'39.91803"	6660940.025	2194669.544	195790.3795	104068.9191
MCLM-6	38°36'04.21897"	109°34'30.00275"	6665149.258	2190600.734	200000.0000	100000.0000

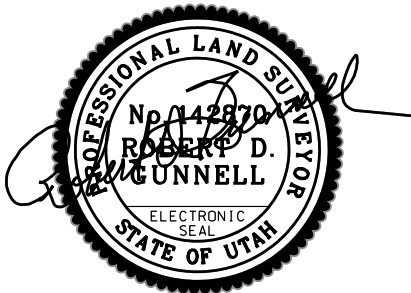
*OPUS = ONLINE POSITIONING USER SERVICE PROVIDED BY THE NATIONAL GEODETTIC SURVEY
SURVEY CONTROL NOTES: PROJECT CONTROL COORDINATES AND BASIS OF BEARING

PROJECT SURVEY CONTROL IS BASED ON FIELD CONTROL POINTS MCLM 6 AND MCLM 8 SET FOR UDOT MAPPING PROJECT SP-0191(25)125, WHICH EXTENDED ALONG US-191 FROM MOAB TO CANYONLANDS AIRPORT (M.P. 125.75 TO M.P. 144.00), PERFORMED BY HILL, JAMISON & ASSOCIATES OF BOUNTIFUL APPROXIMATELY MARCH 1998. THIS SURVEY WAS IN STATE PLANE NAD83/NAVD88 CENTRAL ZONE AND PROVIDED MODIFIED STATE PLANE COORDINATES INVOLVING A GRID FACTOR OF 1.000199860, AND HAVING METRIC UNITS. THE SURVEY CONTROL USED FOR SUBSEQUENT UDOT PROJECT SP-0191(30)125 (APPROXIMATELY DECEMBER 2002) CONVERTED THIS SURVEY CONTROL DATA FROM METRIC TO ENGLISH COORDINATES. FOR THE CURRENT PROJECT, UDOT REGION 4 SURVEY CREWS PERFORMED A FIELD CHECK AND COMPARISON TO THE ABOVE SURVEY CONTROL INFORMATION. THE PROJECTION, LATITUDES AND LONGITUDES, AND ELEVATIONS, WERE FOUND OR DETERMINED TO BE THE SAME. HOWEVER, THE COMBINED ADJUSTMENT FACTOR (CAF) FOR THE MORE LOCALIZED POINTS WERE DIFFERENT BECAUSE OF ELEVATION DIFFERENCES, AND THEREFORE LOCAL GROUND AND BASE COORDINATES OF 200000.000 NORTHING AND 100000.000 EASTING WERE ASSIGNED TO MCLM 6. CONTROL POINT MCLM 8 WAS USED AS A BACKSITE TO MCLM 6 TO ESTABLISH THE SAME BEARING AS THE PRIOR SURVEY CONTROL PROJECTS. THEREFORE THE LOCAL COORDINATE SYSTEM ESTABLISHED FOR THIS PROJECT IS ON A STATE PLANE UTAH CENTRAL PROJECTION AND ROTATION, ALTHOUGH USING LOCAL COORDINATES.

RB&G ENGINEERING, INC. OF PROVO UTAH, FOUND AND SURVEYED THE FIELD CONTROL POINTS MCLM 6, MCLM 7, AND MCLM 8. BLM SECTION CORNER FOR THE NW CORNER OF SECTION 26, T. 25 S. R. 21 E., S.L.B.&M., AND NATIONAL GEODETTIC SURVEY BENCH MARK P-19 WERE ALSO FOUND AND SURVEYED. LOCAL COORDINATES OF MCLM 6 AND MCLM 8 WERE VERIFIED AS THE SAME AS ESTABLISHED BY REGION 4. HOWEVER, THE GEODETTIC AND HENCE STATE PLANE COORDINATES, AND THEREFORE GROUND SCALE FACTOR WERE FOUND TO BE SOMEWHAT DIFFERENT AS SHOWN ON THIS SHEET. BECAUSE THE LOCAL COORDINATES AND INVERSE DISTANCE FOR POINTS MCLM 6 AND MCLM 8 WERE FOUND THE SAME, THIS COORDINATE SYSTEM HAS BEEN RETAINED FOR PROJECT CONSTRUCTION AS SHOWN ON THIS SHEET. THE SURVEYED GEODETTIC, AND STATE PLANE COORDINATES, FOR POINTS MCLM 6, MCLM 7, AND MCLM 8 ARE SHOWN FOR INFORMATION ONLY. LATER POINTS MCLM-3, MCLM-4, AND MCLM-6 WERE SURVEYED AND SUBMITTED TO OPUS FOR BETTER GEODETTIC CONTROL AND STATE PLANE COORDINATES AND THAT INFORMATION, ADDED TO THIS SHEET, IS SUPERIOR.

BASED ON THE RECORDED NAVD 88 BENCHMARK ELEVATION OF 4027.89 FEET FOR POINT P-19 (LOCATED 12,197 FEET SOUTHERLY FROM MCLM 6), THE SURVEYED ELEVATION FOR POINT MCLM 6 IS 3999.50 FEET. THIS ALSO AGREES WITH THE PRIOR SURVEY CONTROL PROJECTS AND IS RETAINED FOR CURRENT PROJECT CONTROL PRIMARY BENCHMARK. THE ELEVATION SURVEYED FOR POINT MCLM 8 WAS FOUND TO BE SLIGHTLY DIFFERENT AS NOTED ON THIS SHEET.

IT IS OBSERVED THE NAVD 88 ELEVATION FOR POINT P-19 IS 3.3 FEET ABOVE THE NGVD 29 ELEVATION LISTED FOR THE POINT AND ALSO STAMPED ON THE CAP.
(NOTE - WHEN USING THE NGVD 29 ELEVATION, RESULTING PROJECT SURVEYED GROUND POINTS APPEAR TO CLOSELY AGREE WITH THE 1951 BRIDGE PLAN ELEVATIONS, AND THE APPLICABLE USGS QUAD MAP.)



06/12/2008

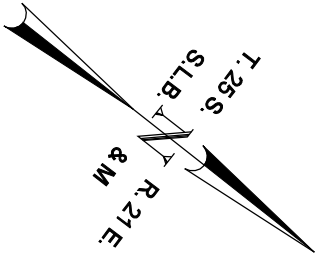
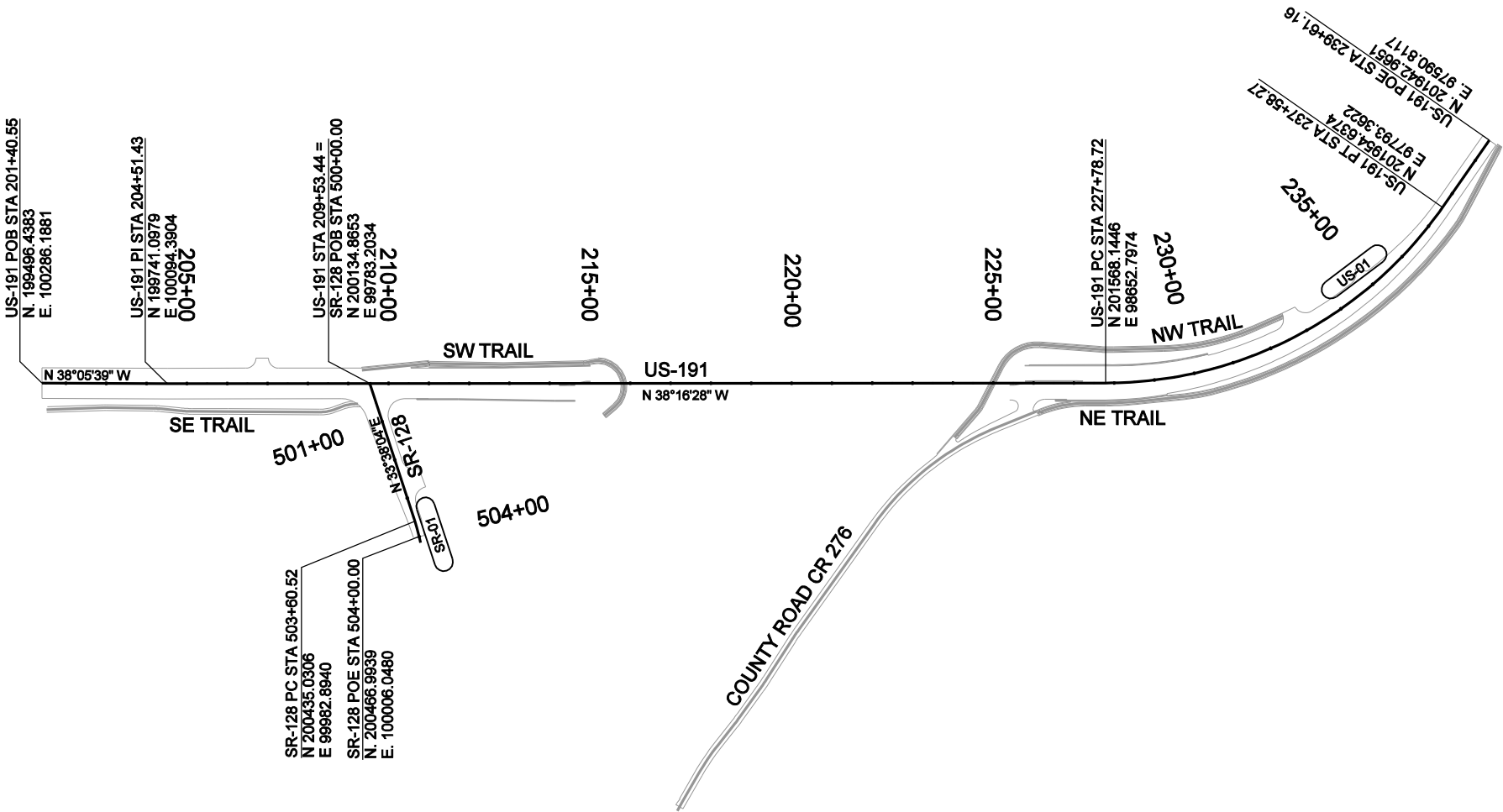


REVISIONS				UTAH DEPARTMENT OF TRANSPORTATION			
NO.	DATE	APPROVED BY	REMARKS	ROADWAY DESIGN			
1	5-2-08	SAH	CORRECTED STATE PLANE COORDINATES	APPROVED			
2	6-12-08	SAH	ADDED OPUS INFO. & COMMENT REVISIONS				
				DRAWN BY	JBR	DATE	01/16/08
				QC CHECKED BY	SAH	DATE	
				PROFESSIONAL ENGINEER			
				SURVEY CONTROL			
				PROJECT			
				OVER COLORADO RIVER BRIDGE			
				BRF-0191(58)129			
				SHEET NO. SC-01			

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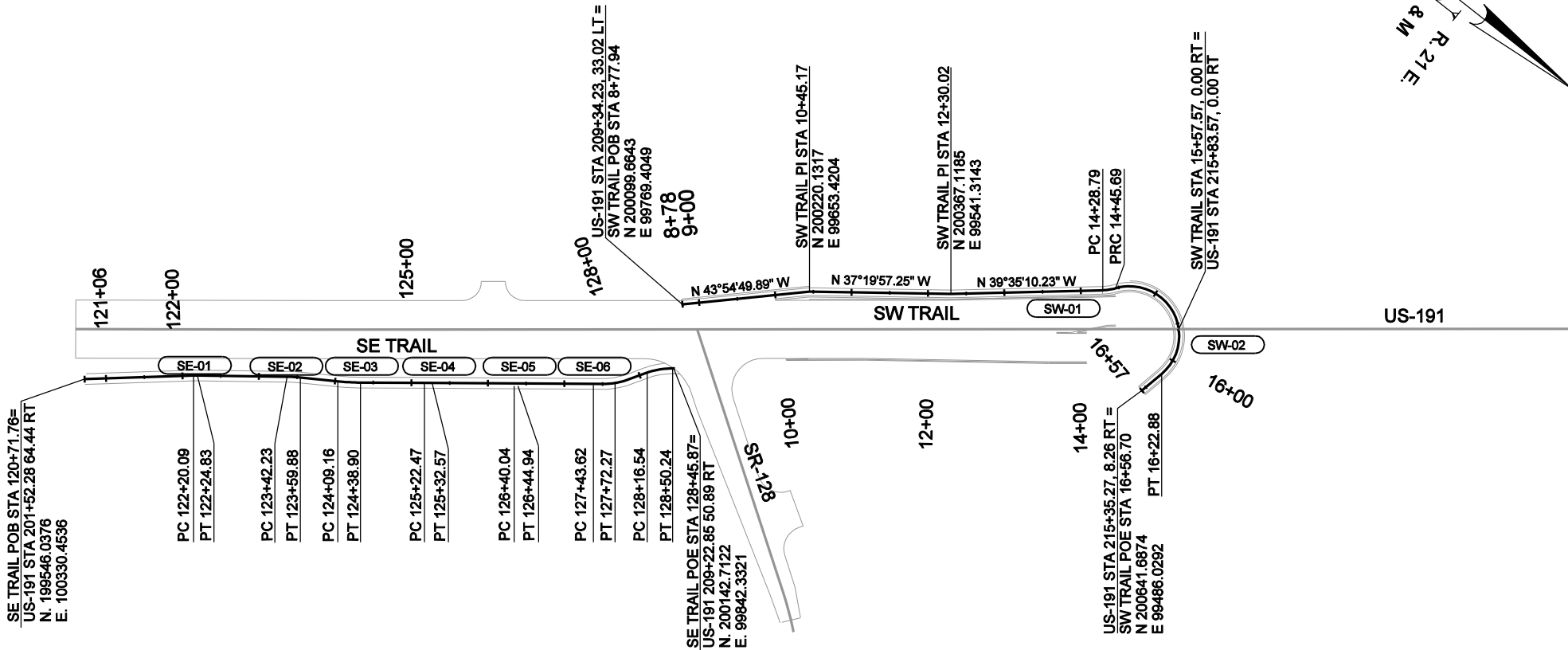
CURVE DATA TABLE															
CURVE ID	Δ	HORIZONTAL CURVE DATA			PI COORDINATES			PC COORDINATES			PT COORDINATES			BEARING	
		RADIUS	LENGTH	TANGENT	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	IN	OUT
SR-01	22°33'30"	495.000	194.890	98.723	504+59.245	200517.2265	100037.5763	503+60.521	200435.0306	99982.8940	505+55.411	300572.1562	100119.6072	N 33°38'04" E	N 56°11'34" E
US-01	55°01'025	1020.000	979.550	531.246	223+09.966	201985.2005	98323.7282	227+78.720	201568.1446	98652.7974	237+58.271	201954.6374	97793.3622	N 38°16'28" W	S 86°42'07" W



PROJECT		US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH		ROADWAY DESIGN			
		BRF-0191(58)129		APPROVED			
HORIZONTAL ALIGNMENT CONTROL SHEET				DRAWN BY			
				QC			
				CHECKED BY			
						DATE	
				PROFESSIONAL ENGINEER		APPROVED BY	
						NO.	
						DATE	
						REMARKS	
SHEET NO.		CT-01					

PRELIMINARY
NOT FOR CONSTRUCTION

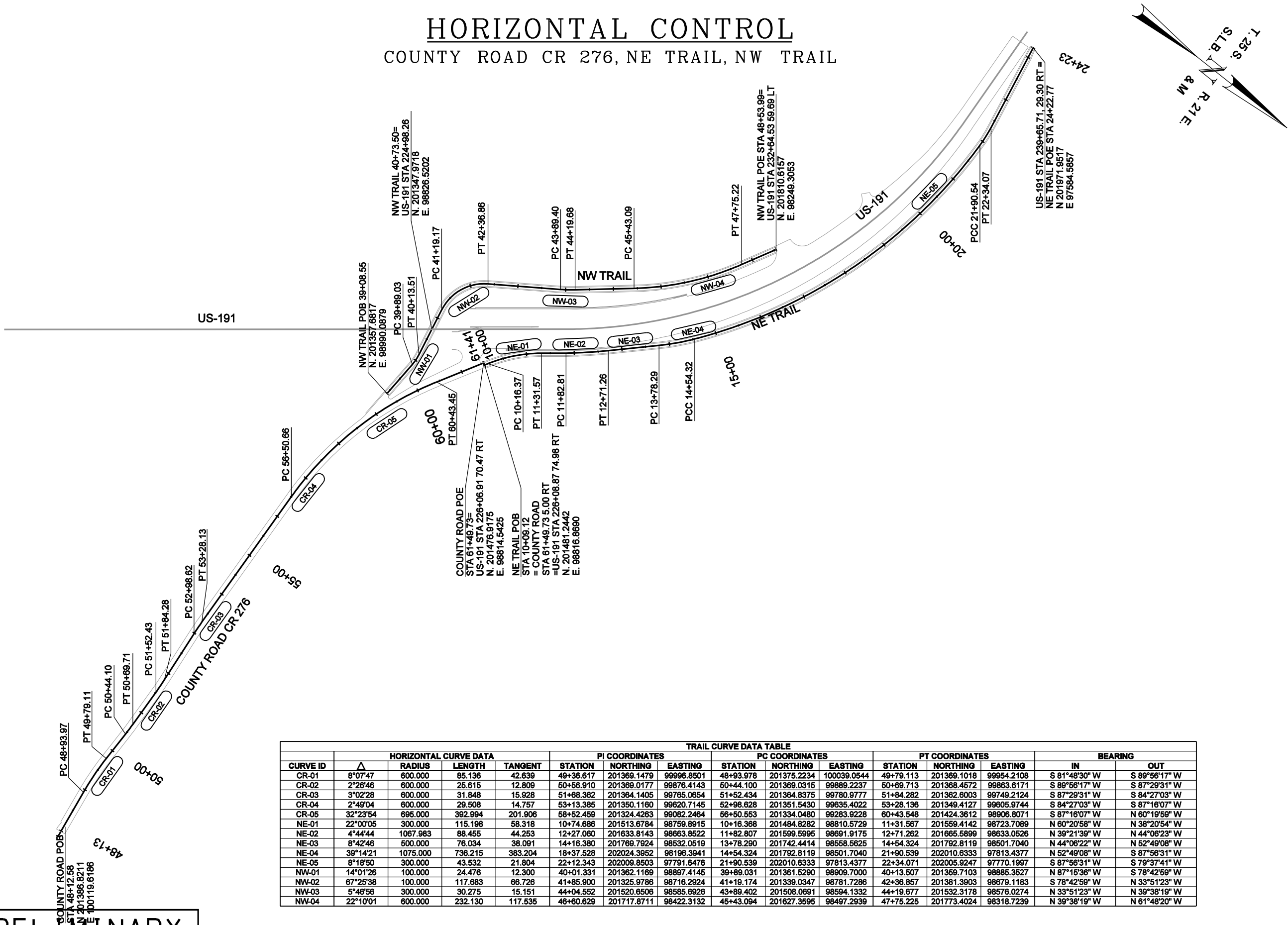
TRAIL CURVE DATA TABLE															
CURVE ID	Δ	HORIZONTAL CURVE DATA			PI COORDINATES			PC COORDINATES			PT COORDINATES			BEARING	
		RADIUS	LENGTH	TANGENT	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	IN	OUT
SE-01	2°43'13"	100.000	4.748	2.374	122+16.779	199866.8709	100238.9330	122+14.405	199655.0562	100238.4642	122+19.153	199858.7563	100235.4898	N 40°09'27" W	N 37°26'14" W
SE-02	5°03'16	200.000	17.644	8.828	123+45.378	199758.9814	100158.7588	123+36.550	199751.9721	100164.1250	123+54.194	199766.4363	100154.0310	N 37°26'14" W	N 32°22'57" W
SE-03	5°40'48	300.000	29.741	14.862	124+18.358	199820.6225	100119.6665	124+03.476	199808.0544	100127.6371	124+33.216	199832.3400	100110.4911	N 32°22'57" W	N 38°03'45" W
SE-04	0°12'26	300.000	1.0853	0.543	125+21.841	199902.1177	100055.8520	125+21.299	199901.6905	100056.1865	125+22.3838	199902.5462	100055.5190	N 38°03'45" W	N 37°51'19" W
SE-05	20°46'10	100.000	36.2497	18.326	127+67.755	200096.2821	99904.9422	127+49.429	200081.8128	99916.1883	127+85.6786	200105.8233	99889.2960	N 37°51'19" W	N 58°37'29" W
SE-06	22°34'04	100.000	39.388	19.952	128+28.033	200127.8748	99853.1347	128+08.080	200117.4865	99870.1700	128+47.469	200144.0053	99841.3907	N 58°37'29" W	N 36°03'25" W
SW-01	14°53'31	65.000	16.894	8.495	14+37.289	200526.8332	99409.2180	14+28.794	200520.3030	99414.6513	14+45.688	200531.7477	99402.2888	N 39°45'42" W	N 54°39'13" W
SW-02	156°11'36	65.000	177.196	308.356	17+54.044	200710.1376	99150.7719	14+45.688	200531.7477	99402.2888	16+22.884	200648.4524	99452.8955	N 54°39'13" W	S 78°27'37" E



PROJECT		US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH		ROADWAY DESIGN			
		BRF-0191(58)129		APPROVED			
HORIZONTAL ALIGNMENT CONTROL SHEET		PROFESSIONAL ENGINEER		DATE			
				DRAWN BY			
				QC CHECKED BY			
				NO.		DATE	
				APPROVED BY			
						REMARKS	

SHEET NO. CT-02

PRELIMINARY
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TRAIL CURVE DATA TABLE													
CURVE ID	Δ	HORIZONTAL CURVE DATA			PI COORDINATES			PC COORDINATES			PT COORDINATES		
		RADIUS	LENGTH	TANGENT	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING
CR-01	8°07'47	600.000	85.136	42.639	49+36.617	201369.1479	99996.8501	48+93.978	201375.2234	100039.0544	49+79.113	201369.1018	99954.2108
CR-02	2°28'46	600.000	25.615	12.809	50+56.910	201369.0177	99876.4143	50+44.100	201369.0315	99889.2237	50+69.713	201368.4572	99863.6171
CR-03	3°02'28	600.000	31.848	15.928	51+68.362	201364.1405	99765.0654	51+52.434	201364.8375	99780.9777	51+84.282	201362.6003	99749.2124
CR-04	2°49'04	600.000	29.508	14.757	53+13.385	201350.1160	99620.7145	52+98.628	201351.5430	99635.4022	53+28.136	201349.4127	99605.9744
CR-05	32°23'54	695.000	392.994	201.906	58+52.459	201324.4263	99082.2464	56+50.553	201334.0480	99283.9228	60+43.548	201424.3612	99906.8071
NE-01	22°00'05	300.000	115.198	58.318	10+74.686	201513.6784	98759.8915	10+16.368	201484.8282	98810.5729	11+31.567	201559.4142	98723.7089
NE-02	4°44'44	1067.983	88.455	44.253	12+27.060	201633.8143	98663.8522	11+82.807	201599.5995	98691.9175	12+71.262	201665.5899	98633.0526
NE-03	8°42'46	500.000	76.034	38.091	14+16.380	201769.7924	98532.0519	13+78.290	201742.4414	98558.5625	14+54.324	201792.8119	98501.7040
NE-04	39°14'21	1075.000	736.215	383.204	18+37.528	202024.3952	98196.3941	14+54.324	201792.8119	98501.7040	21+90.539	202010.6333	97813.4377
NE-05	8°18'50	300.000	43.532	21.804	22+12.343	202009.8503	97791.6476	21+90.539	202010.6333	97813.4377	22+34.071	202005.9247	97770.1997
NW-01	14°01'26	100.000	24.476	12.300	40+01.331	201362.1169	98897.4145	39+89.031	201361.5290	98909.7000	40+13.507	201359.7103	98885.3527
NW-02	67°25'38	100.000	117.683	66.726	41+85.900	201325.9786	98716.2924	41+19.174	201339.0347	98761.7286	42+36.857	201381.3903	98679.1183
NW-03	5°46'56	300.000	30.275	15.151	44+04.552	201520.6506	98585.6926	43+89.402	201508.0691	98594.1332	44+19.677	201532.3178	98576.0274
NW-04	22°10'01	600.000	232.130	117.535	46+80.629	201717.8711	98422.3132	45+43.094	201627.3595	98497.2939	47+75.225	201773.4024	98318.7239

PROJECT		US-191; OVER COLORADO		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH			
APPROVED		ROADWAY DESIGN			
BRF-0191(58)129		DRAWN BY			
HORIZONTAL ALIGNMENT CONTROL SHEET		QC CHECKED BY			
PROFESSIONAL ENGINEER		DATE		APPROVED BY	
				NO.	
				DATE	
				REMARKS	
SHEET NO.		CT-03			

PRELIMINARY
NOT FOR CONSTRUCTION

BARRIER SUMMARY SHEET									
LINE	FROM		TO		CAST-IN-PLACE CONSTANT SLOPE BARRIER	CRASH CUSHION TYPE B	CRASH CUSHION TYPE F	CAST-IN-PLACE BARRIER/MOMEN T SLAB	REMARKS
	STATION	OFFSET	STATION	OFFSET	FEET	EACH	EACH	FT	
US-191	210+98.03	38.00 RT	214+63.27	42.42 RT	365		0		
US-191	214+38.53	5.42 RT	214+63.27	5.42 RT	25				
US-191	214+43.53	4.00 RT	214+90.27	5.13 LT	48				
US-191	226+81.75	42.42 RT	229+25.99	39.62 RT	251				
US-191	225+52.47	5.45 RT	226+04.61	4.17 LT	53				
US-191	225+78.26	5.42 LT	227+06.99	5.58 LT	129				
US-191	225+89.49	42.42 LT	230+16.01	36.21 LT	418				
US-191	210+98.04	38.00 RT					1		
US-191	214+38.53	4.00 RT				1			
US-191	227+06.99	4.17 LT				1			
US-191	226+81.75	42.42 RT					1		
US-191	230+16.01	36.21 LT					1		
US-191	211+00.47	38.00 LT	215+01.27	42.42 LT				401	
US-191	214+90.27	3.71 LT	215+01.27	4.00 LT				12	
US-191	225+40.27	4.00 RT	225+52.51	4.00 RT				13	
US-191	225+78.27	42.42 LT	225+89.49	42.42 LT				12	
					0				
TOTAL					1,288	2	3	438	

CONCRETE SUMMARY SHEET																	
LINE	FROM		TO		AREA	FLAT WORK				CONCRETE LINED DITCH	UNTREATED BASE COURSE					REMARKS	
											(0 LB/FT³)						
	STATION	OFFSET	STATION	OFFSET		SQ FT	4" THICK	6" THICK	7" THICK		8" THICK	DEPTH	1 1/2"	1"	3/4"		3/4" OR 1"
SW TRAIL	14+28.42		16+56.70		2283		2283									SEE SURFACING SUMMARY FOR UTBC QUANTITIES	
NW TRAIL	39+08.55		42+36.96		3283		3283									SEE SURFACING SUMMARY FOR UTBC QUANTITIES	
					0												
					0												
					0												
TOTAL						0.0	5566.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		

DELINEATOR SUMMARY SHEET							
LINE	FROM		TO		MAX SPACING	DELINEATOR	REMARKS
						TYPE I	
	STATION	OFFSET	STATION	OFFSET	FEET	EACH	
US-191	231+35.00	38.34 LT	239+60.00	25.85 LT	90	11	
US-191	229+30.00	40.25 RT	239+20.00	23.21 RT	90	12	
US-191						23	

SHEET NO. SM-01		PROJECT	US-191; OVER COLORADO	UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN				REVISIONS			
			RIVER BRIDGE - MOAB, UTAH								
PROJECT NUMBER			BRF-0191(58)129	APPROVED	DRAWN BY		XXX	NO.	DATE	APPROVED BY	REMARKS
					QC CHECKED BY		XXX				
SUMMARY SHEET					PROFESSIONAL ENGINEER		DATE				

PRELIMINARY
NOT FOR CONSTRUCTION

LINE	STATION		LENGTH	ROADWAY EXCAVATION	EMBANKMENT	EMBANKMENT X 1.21	BORROW	EMBANKMENT FOR BRIDGE	REMARKS
	FROM	TO							
US-191	201+40.55	213+13.27	1172.72	790	3351	4055	3265		
US-191	213+13.27	215+01.27	188.00	0	0	0	0	5107	
US-191	225+78.27	227+28.27	150.00	0	0	0	0	6625	
US-191	227+28.27	239+61.00	1232.73	1200	2809	3399	2199		
SR-128	500+64.62	504+00.00	335.38	700	0	0	-700		
SE TRAIL	120+73.03	128+52.61	779.58	600	150	182	-419		
SW TRAIL	8+77.94	16+56.70	778.76	0	2710	3279	3279		
COUNTY ROAD CR 276	48+01.10	61+49.73	1348.63	0	1310	1585	1585		
NE TRAIL	10+09.29	24+22.16	1412.87	850	520	629	-221		
NW TRAIL	39+08.55	48+53.66	945.11	380	3100	3751	3371		
TOTAL				4,520	13,950	16,880	12,360	11,732	

LINE	FROM		TO		CHAIN LINK FENCE AND GATE			TRAFFIC CONTROL CABLE	REMARKS
					6FT CHAIN LINK FENCE	6FT CHAIN LINK FENCE, VINYL COATED	TEMPORARY 6 FT CHAIN LINK FENCE		
					TYPE 1	TYPE 1	TYPE 1		
	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	FEET	
US-191	207+03.81	63.53 LT	215+48.75	70.36 LT		846.42			
US-191	210+21.77	90.00 RT	214+63.27	44.83 RT	486.67				
US-191	210+21.77	90.00 RT	211+00.61	40.42 RT				93.14	
SR-128	501+07.17	37.00 LT	502+31.32	37.00 LT				124.15	
SR-128	502+94.90	37.00 LT	504+05.38	41.67 LT				114.22	
US-191	207+08.00	63.38 LT	215+41.24	75.51 LT			882		
TOTAL					487.0	847.0	882.0	332	

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PRELIMINARY
NOT FOR CONSTRUCTION

ROTOMILLING SUMMARY SHEET																							
LINE	STATION		AREA	ROTOMILLING								LIQUID ASPHALT MC-70 OR MC-250 0.5 GAL/YD² (249 GAL/TON)	HOT MIX ASPHALT				OPEN GRADED SURFACE COURSE				EMULSIFIED ASPHALT CSS-1 0.2 GAL/YD² (249 GAL/TON)	Remarks	
				ROTOMILLING	ROTOMILLING 1"	ROTOMILLING 1-1/2"	ROTOMILLING 2"	ROTOMILLING 3"	ROTOMILLING 4"	ROTOMILLING 5"	ROTOMILLING 6"		HMA - 3/4" (PG 70-28)				OPEN GRADED SURFACE COURSE		ASPHALT CEMENT PG 70-28				
	FROM	TO	SQ FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON		DEPTH IN	VOL FT³	TON		DEPTH IN	VOL FT³	TON		TON
US-191	201+40.55	202+41.03	5,361				595.628																SEE SURFACING SUMMARY FOR HMA QUANTITIES
US-191	230+20.00	239+61.15	40,715				4523.86																SEE SURFACING SUMMARY FOR HMA QUANTITIES
SR-128	502+98.85	504+00.00	2,283				253.693																SEE SURFACING SUMMARY FOR HMA QUANTITIES
TOTAL				0	0	0	5373.18	0	0	0	0	0	0				0				0	0	

PROJECT		US-191; OVER COLORADO		APPROVED		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH							
PROJECT NUMBER		BRF-0191(58)129		DRAWN BY		QC CHECKED BY		NO.	
SUMMARY SHEET				DATE		DATE		APPROVED BY	
				PROFESSIONAL ENGINEER		DATE		REMARKS	
SHEET NO.		SM-03							

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PRELIMINARY
NOT FOR CONSTRUCTION

SURFACING SUMMARY																					
ALIGNMENT	STATION		AREA	BASE COURSES					HOT MIX ASPHALT								EMULSIFIED ASPHALT CSS-1 0.20 GAL/YD³	BX 1200 GEOGRID	Remarks		
				UNTREATED BASE COURSE 3/4" OR 1" MAX				LIQUID ASPHALT MC-70 OR MC-250 0.5 GAL/YD²	HMA - 3/4" (PG 64-34)				HMA - 0 VOID MIX								
	(138 LB/FT³)				(249 GAL/TON)	(152 LB/FT³)				(152 LB/FT³)				(249 GAL/TON)							
	FROM	TO	SQ FT	AVG WIDTH	DEPTH	VOL	TON	TON	AVG WIDTH	DEPTH	VOL	TON	AVG WIDTH	DEPTH	VOL	TON	TON	SQ YD			
			FEET	IN	FT³			FEET	IN	FT³		FEET	IN	FT³							
US-191	201+30.03	210+00.00	41,304		0	0	0	9.2		2	6,884	523			0	0	3.7		SOUTH OVERLAY SECTION		
US-191	201+73.00	208+50.00	3,385		7	1,975	416	0.8		7.5	2,116	161			0	0	0.3	376	WIDENING (RIGHT)		
US-191	201+39.98	210+00.00	22,474		7	13,110	905	5.0		7.5	14,046	1,068			0	0	2.0	2,497	WIDENING (LEFT)		
US-191	210+00.00	215+01.27	38,825		7	22,648	1,619	8.7		7.5	24,266	1,844			0	0	3.5	4,314	FULL BUILD SECTION - SOUTH		
SR-128	500+00.00	504+00.00	9,989		0	0	0	2.2		2	1,665	127			0	0	0.9		OVERLAY SECTION		
SR-128	500+64.62	504+00.00	3,101		6	1,551	107	0.7		5.5	1,421	108			0	0	0.3	345	WIDENING		
SR-128	500+59.56	504+00.00	4,378		6	2,189	151	1.0		5.5	2,007	153			0	0	0.4	486	WIDENING		
SW TRAIL	8+77.94	14+28.40	5,019		4	1,673	115	1.1			0	0		2	836	64	0.4		TRAIL PAVING		
SW TRAIL	14+28.40	16+56.70	2,283		4	761	53	0.5			0	0			0	0	0.0		TRAIL GRADING FOR FLATWORK		
SE TRAIL	120+73.03	128+52.61	10,813		4	3,604	249	2.4			0	0			0	0	0.0		TRAIL GRADING		
US-191	225+40.27	230+20.00	38,904		9	29,178	2,330	8.7		8.5	27,557	2,094			0	0	3.5	4,323	FULL BUILD SECTION - NORTH		
US-191	230+20.00	236+44.29	14,375		9	10,782	800	3.2		8.5	10,183	774			0	0	1.3	1,597	WIDENING		
US-191	230+20.00	239+61.17	40,471		0	0	0	9.0		2	6,745	513			0	0	3.6		OVERLAY SECTION		
COUNTY ROAD CR 276	48+01.10	56+53.20	17,041		3	1,065	73	3.8		3	4,260	324			0	0	1.5		OVERLAY SECTION		
COUNTY ROAD CR 276	56+53.20	61+49.73	12,580		6	6,290	434	2.8		3	3,145	239			0	0	1.1	1,398	FULL BUILD SECTION		
NE TRAIL	10+09.01	24+22.77	14,175		4	4,725	326	3.2			0	0		2	2,363	180	1.3		TRAIL PAVING		
NW TRAIL	42+36.96	48+53.66	6,166		4	2,055	142	1.4			0	0		2	1,028	78	0.6		TRAIL PAVING		
NW TRAIL	39+08.55	42+36.96	3,283		4	1,094	76	0.7			0	0			0	0	0.0		TRAIL GRADING FOR FLATWORK		
US-191	201+40.55	209+00.00	19,642		0	0	0	4.4		1.5	2,455	187			0	0			LEVELING SECTION (AVG DEPTH)		
TOTAL							7,795	69			8,113				321	24	15,336				

PROJECT		US-191; OVER COLORADO		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH			
		BRF-0191(58)129			
SUMMARY SHEET		APPROVED			
		DRAWN BY			
		QC CHECKED BY			
		DATE			
		PROFESSIONAL ENGINEER			
		UTAH DEPARTMENT OF TRANSPORTATION			
		ROADWAY DESIGN			
		XXX			
		NO.			
		DATE			
		APPROVED BY			
		REMARKS			
SHEET NO.		SM-04			

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PRELIMINARY
NOT FOR CONSTRUCTION

REMOVAL SUMMARY SHEET									
LINE	FROM		TO		REMOVE FENCE	REMOVE CONCRETE BARRIER	REMOVE TRAFFIC CONTROL CABLE	REMOVE BOLLARD	REMARKS
	STATION	OFFSET	STATION	OFFSET	LIN FEET	LIN FEET	LIN FEET	EACH	
US-191	209+00.00	61.86 LT	215+74.30	54.87 LT	674				
US-191	211+79.13	39.28 RT	214+83.10	33.46 RT		304			
US-191	210+80.11	25.58 LT	214+83.43	3.33 RT		404			
US-191	210+77.66	30.84 LT	214+92.63	20.62 LT		415			
US-191	225+20.67	11.82 RT	227+61.16	6.71 LT		241			
US-191	225+19.96	42.02 RT	225+34.69	44.82 RT		15			
SR-128	500+78.46	33.45 LT	501+89.30	38.25 LT			111		
SR-128	502+38.00	40.00 LT	504+04.48	42.50 LT			166		
US-191	210+09.43	63.69 RT	212+32.68	65.94 RT			223		
US-191	226+84.44	58.12 RT							
US-191	227+78.02	56.44 RT							
US-191	230+44.52	48.90 RT							
US-191	231+33.31	47.15 RT							
US-191	232+22.50	44.83 RT							
US-191	233+12.09	41.33 RT							
US-191	234+03.13	38.15 RT							
US-191	234+90.21	34.53 RT							
US-191	235+83.18	31.03 RT							
US-191	236+73.57	31.86 RT							
US-191	227+61.68	5.82 LT							
US-191	228+30.13	1.84 LT							
US-191	229+22.43	3.81 LT							
US-191	230+14.27	6.35 LT							
US-191	230+29.81	20.83 LT							
US-191	230+72.93	21.33 LT							
US-191	230+88.87	8.32 LT							
US-191	231+80.35	10.87 LT							
US-191	230+29.81	20.83 LT							
US-191	230+72.93	21.33 LT							
US-191	230+88.87	8.32 LT							
US-191	231+80.32	10.87 LT							
US-191	233+64.38	17.17 LT							
US-191	234+55.63	19.61 LT							
US-191	236+20.21	27.55 LT							
US-191	237+15.17	28.07 LT							
US-191	206+61.39	33.33 LT						1	
US-191	206+65.43	40.53 LT						1	
US-191	206+67.92	48.77 LT						1	
US-191	206+69.55	56.40 LT						1	
US-191	207+05.46	55.66 LT						1	
US-191	207+08.51	47.27 LT						1	
US-191	207+12.79	39.35 LT						1	
US-191	207+18.51	32.99 LT						1	
US-191	201+53.00		209+15.76						
US-191	201+40.55		206+71.32						
US-191	207+02.02		215+43.14						
US-191	209+97.89		215+03.28						
SR-128	500+40.20		504+00.00						
SR-128	500+67.40		503+99.94						
COUNTY ROAD CR 276	50+00.00		57+50.00						
COUNTY ROAD CR 276	49+79.11		59+25.00						
COUNTY ROAD CR 276	59+25.00		61+49.73						

NOTE:
1. SEE SHEET SM-06 FOR CONTINUATION

PROJECT		US-191; OVER COLORADO		REVISIONS	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH			
		BRF-0191(58)129			
		SUMMARY SHEET			
		APPROVED		UTAH DEPARTMENT OF TRANSPORTATION	
				ROADWAY DESIGN	
				DRAWN BY	
				QC	
				CHECKED BY	
				DATE	
				PROFESSIONAL ENGINEER	
				NO.	
				DATE	
				APPROVED BY	
				REMARKS	
SHEET NO.		SM-05			

PRELIMINARY
NOT FOR CONSTRUCTION

REMOVAL SUMMARY SHEET									
LINE	FROM		TO		REMOVE FENCE	REMOVE CONCRETE BARRIER	REMOVE TRAFFIC CONTROL CABLE	REMOVE BOLLARD	REMARKS
	STATION	OFFSET	STATION	OFFSET	LIN FEET	LIN FEET	LIN FEET	EACH	
US-191	226+12.45		239+61.16						
US-191	223+38.55		232+64.77						
US-191	233+03.00		234+91.33						
US-191	235+07.12		239+61.16						
US-191									
US-191									
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
US-191					0	0	0	0	
TOTAL					674	1,380	501	8	

SHEET NO.		SM-06	
PROJECT	US-191; OVER COLORADO		
	RIVER BRIDGE - MOAB, UTAH		
PROJECT NUMBER	BRF-0191(58)129		
		SUMMARY SHEET	
		APPROVED	
		DRAWN BY	
		QC	
		CHECKED BY	
		DATE	
		PROFESSIONAL ENGINEER	
		NO.	
		DATE	
		APPROVED BY	
		REMARKS	
UTAH DEPARTMENT OF TRANSPORTATION			
ROADWAY DESIGN			
REVISIONS			

PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

PRELIMINARY
NOT FOR CONSTRUCTION

SIGN SCHEDULE

[illegible]

SIGNING KEY

SIGN COLOR	SIGN CODE
------------	-----------

W = WHITE R = RELOCATION

G = GREEN N = NEW SIGN

BL = BLUE AUX = AUXILIARY SIGN

BR = BROWN

BK = BLACK

$$Y = YBL$$

R = RED

NOTE:
1. SEE SHEET SM-10 FOR CONTINUATION

[illegible]

SIGNING KEY	
<u>SIGN COLOR</u>	<u>SIGN CODE</u>
W = WHITE	R = RELOCATION
G = GREEN	N = NEW SIGN
BL = BLUE	AUX = AUXILIARY SIGN
BR = BROWN	X = REMOVE SIGN
BK = BLACK	
Y = YELLOW	
R = RED	

SHEET NO. SM-10

<div> <div>UTAH DEPARTMENT OF TRANSPORTATION</div> <div>ROADWAY DESIGN</div> </div>		<div> <div>DRAWN BY</div> <div>X</div> </div>
<div>APPROVED</div>	<div> <div>PROFESSIONAL ENGINEER</div> <div>DATE</div> </div>	<div> <div>QC CHECKED BY</div> <div>X</div> </div>

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PRELIMINARY
NOT FOR CONSTRUCTION

CONCRETE COATING									
LINE	FROM		TO		LENGTH FT	CROSS SECTIONAL LENGTH FT	CAST IN PLACE BARRIER SURFACE SQ FT	MSE WALL SURFACE SQ FT	REMARKS
	STA	OFFSET	STA	OFFSET					
US-191	210+98.03	38.00 RT	214+63.27	42.42 RT	365.27	7.79	2845.43		2' CAST IN PLACE CONSTANT SLOPE BARIER
US-191	214+38.53	5.42 RT	214+43.53	5.42 RT	5.00	7.81	39.07		1.46' BARRIER SECTION
US-191	214+43.53	5.42 RT	214+50.97	5.42 RT	7.44	9.79	72.86		TRANSITION SECTION
US-191	214+50.97	2.55 RT	214+90.27	5.13 LT	40.04	7.81	312.86		1.46' BARRIER SECTION
US-191	214+50.97	5.42 RT	214+63.27	5.42 RT	12.30	7.81	96.10		1.46' BARRIER SECTION
US-191	211+00.47	38.00 LT	215+01.27	42.42 LT	400.82	7.81	3131.64		MOMENT SLAB BARRIER SECTION
US-191	214+90.27	3.71 LT	215+01.27	4.00 LT	11.00	7.81	85.97		MOMENT SLAB BARRIER SECTION
US-191	225+89.49	42.33 LT	230+16.01	36.21 LT	426.56	7.79	3322.93		2' CAST IN PLACE CONSTANT SLOPE BARIER
US-191	225+52.47	5.45 RT	225+96.52	2.68 LT	44.79	7.81	349.98		1.46' BARRIER SECTION
US-191	225+96.52	2.68 LT	226+04.61	4.17 LT	8.23	9.79	80.56		TRANSITION SECTION
US-191	225+78.26	5.42 LT	225+96.51	5.53 LT	18.25	7.81	142.59		1.46' BARRIER SECTION
US-191	226+04.61	4.17 LT	227+06.99	5.58 LT	102.39	7.79	797.62		2' CAST IN PLACE CONSTANT SLOPE BARIER
US-191	225+78.27	42.42 LT	225+89.49	42.42 LT	11.22	7.81	87.66		MOMENT SLAB BARRIER SECTION
US-191	225+40.27	5.42 RT	225+52.47	5.45 RT	12.20	7.81	95.32		MOMENT SLAB BARRIER SECTION
US-191	226+81.75	42.42 RT	229+25.99	39.62 RT	244.26	7.79	1902.75		2' CAST IN PLACE CONSTANT SLOPE BARIER
US-191	205+10.00	58.00 LT	206+60.88	58.00 LT				896.61	WALL R-545A
US-191	205+10.00	58.00 LT	206+60.88	58.00 LT	150.88	4.42		666.39	WALL R-545A FACE OF COPING
US-191	207+21.06	61.62 LT	215+49.51	69.90 LT				7014.03	WALL R-545B
US-191	207+21.06	61.62 LT	215+49.51	69.90 LT	829.27	4.42		3662.64	WALL R-545B FACE OF COPING
US-191	211+00.47	38.67 LT	215+25.35	43.08 LT				5303.70	WALL R-545C
US-191	211+00.47	38.00 LT	215+01.27	42.42 LT	400.82	2.50		1002.06	WALL R-545C FACE OF COPING
US-191	214+90.35	4.46 LT	215+25.35	4.75 LT				643.61	WALL R-545D
US-191	214+90.27	3.71 LT	215+01.27	4.00 LT	11.00	2.50		27.51	WALL R-545D FACE OF COPING
US-191	225+54.19	43.08 LT	225+89.49	43.00 LT				274.32	WALL R-545E
US-191	225+78.27	42.42 LT	225+89.49	42.42 LT	11.22	2.50		28.05	WALL R-545E FACE OF COPING
US-191	225+16.19	4.75 RT	225+51.19	4.75 RT				554.09	WALL R-545F
US-191	225+40.27	5.42 RT	225+52.47	5.45 RT	12.20	2.50		30.50	WALL R-545F FACE OF COPING
TOTAL							13,364.00	20,074.00	

MISCELEANOUS ITEMS						
LINE			BOLLARD	TYPE II JUNCTION BOX	CLEARING AND GRUBBING (PLAN QUANTITY) ACRE	REMARKS
	STATION	OFFSET				
SW TRAIL	10+45.00	0.00 RT	1			
NW TRAIL	39+15.55	0.00 RT	1			
NE TRAIL	10+19.00	0.00 RT	1			
NW TRAIL	48+43.60	0.00 RT	1			
US-191	214+64.52	45.08 RT		1		
US-191	211+04.26	40.50 LT		1		
US-191	225+39.15	45.00 RT		1		
US-191	225+88.24	45.00 LT		1		
PROJECT AREA					6	
US-191			4	4	6	

UTAH DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN

US-191; OVER COLORADO
RIVER BRIDGE - MOAB, UTAH

BRF-0191(58)129

SUMMARY SHEET

REVISIONS

APPROVED

PROFESSIONAL ENGINEER

DATE

NO.

DATE

APPROVED BY

REMARKS

PROJECT

PROJECT NUMBER

SHEET NO.

SM-11

UTAH DEPARTMENT OF TRANSPORTATION

[illegible]

PRELIMINARY
NOT FOR CONSTRUCTION

SHEET NO.	PROJECT	US-191; OVER COLORADO	UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN				REVISIONS				
	PROJECT NUMBER	BRF-0191(58)129					APPROVED	DRAWN BY	XXX		
	SM-13	SUMMARY SHEET		PROFESSIONAL ENGINEER _____ DATE _____		QC CHECKED BY	XXX	NO.	DATE	APPROVED BY	REMARKS

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\SUMMARY_SHEETS\5365_07_SM-14.DGN

PRELIMINARY
NOT FOR CONSTRUCTION

TEMPORARY EROSION CONTROL SUMMARY										
LINE	FROM		TO		DROP-INLET BARRIER (FIBER ROLL)	PIPE-INLET BARRIER (FIBER ROLL)	CHECK DAM (FIBER ROLL)	SILT FENCE	TEMPORARY ENVIRONMENTAL FENCE	REMARKS
	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	FEET	FEET	
US-191	227+90.00	74.00 LT			15					
US-191	229+37.00	37.00 LT			15					
US-191	228+16.00	111.00 LT				10				
US-191	238+61.00	32.00 RT			15					
US-191	238+07.00	34.00 RT					14			
US-191	233+25.00	51.00 LT				10				
US-191	236+49.00	74.00 LT					5			
US-191	236+61.00	72.00 LT	239+61.00	54.00 LT				295		
County Road	49+91.00	31.00 LT	54+71.00	13.00 LT				483		
County Road	54+84.00	13.00 LT					5			
Subtotal 1					240	30	124	2,836	688	
Subtotal 2					45	20	24	778	0	
TOTAL					285	50	148	3614	688	

PROJECT		US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN				REVISIONS					
		RIVER BRIDGE - MOAB, UTAH											
PROJECT NUMBER		BRF-0191(58)129		APPROVED		DRAWN BY XXX		QC CHECKED BY XXX		APPROVED BY			
SUMMARY SHEET				PROFESSIONAL ENGINEER		DATE		NO.		DATE		REMARKS	
SHEET NO.				SM-14									

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\SUMMARY_SHEETS\5365_07_SM-15.DGN

PRELIMINARY
NOT FOR CONSTRUCTION

SURFACE DITCH SUMMARY							
LINE	FROM		TO		SURFACE DITCH	SMALL DITCH EXCAVATION (PLAN QUANTITY)	REMARKS
	STATION	OFFSET	STATION	OFFSET	FEET	CU YD	
US-191	201+87.35	79.61 RT	206+23.55	63.25 LT	133		
US-191	203+19.66	72.55 RT	206+23.55	63.25 LT	86.0		
US-191	205+00.73	61.33 LT	206+23.55	63.25 LT	124.0		
US-191	206+59.77	55.46 LT	206+23.55	63.25 LT	40.0		
US-191	234+77.67	50.98 LT	233+14.57	50.91 LT	148.0		
US-191	212+75.03	74.56 RT	214+75.54	85.79 RT		45.0	SEE DETAIL DD-02
TOTAL					531	45	

RIPRAP SUMMARY					
LINE	STATION	OFFSET	LOOSE RIPRAP	GEOTEXTILES - SEPARATION	REMARKS
			CU YD	SQ YD	
US-191	212+78.00	75.00 RT	5.8	11.7	D ₅₀ =12"
US-191	215+50.00	27.00 RT	204.6	766.6	D ₅₀ =6"
US-191	216+00.00	16.00 RT	106.1	377.0	D ₅₀ =6"
US-191	224+90.00	14.00 LT	450.3	404.6	D ₅₀ =12"
US-191	225+15.00	4.00 LT	214.8	344.7	D ₅₀ =12"
US-191	228+27.00	108.00 LT	5.8	11.7	D ₅₀ =12"
US-191	229+38.00	65.00 LT	2.7	5.4	D ₅₀ =12"
TOTAL			990	1,922	

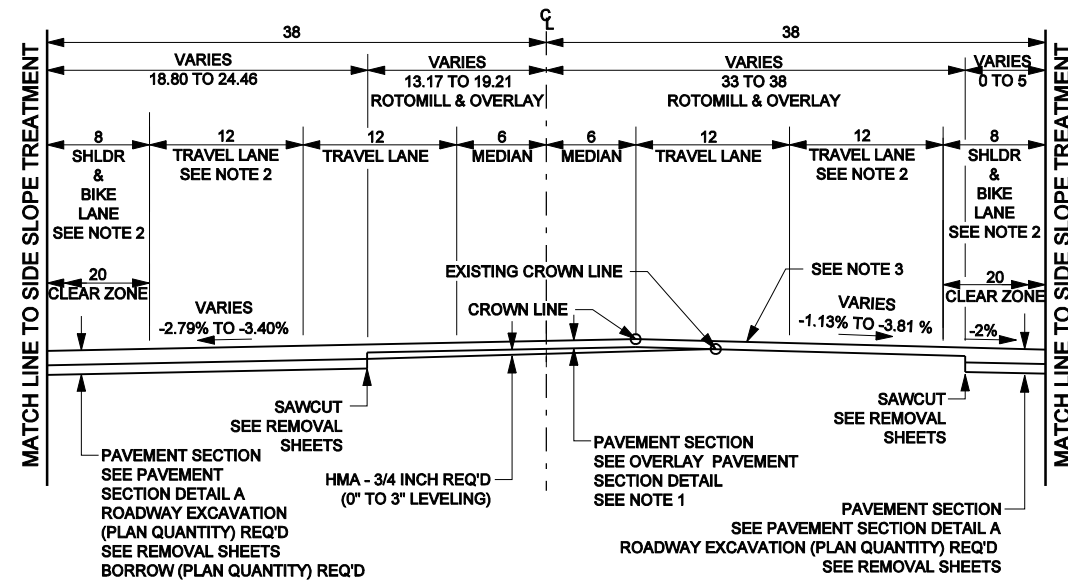
PROJECT		US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN		REVISIONS	
		RIVER BRIDGE - MOAB, UTAH					
PROJECT NUMBER		BRF-0191(58)129		APPROVED		DRAWN BY XXX	
SUMMARY SHEET				PROFESSIONAL ENGINEER		QC CHECKED BY XXX	
				DATE		DATE	
SHEET NO.		SM-15		APPROVED BY		REMARKS	

PRELIMINARY
NOT FOR CONSTRUCTION

SHEET NO.		SM-16	
PROJECT	US-191; OVER COLORADO		
	RIVER BRIDGE - MOAB, UTAH		
PROJECT NUMBER	BRF-0191(58)129		
		SUMMARY SHEET	
		APPROVED	
		DRAWN BY	
		QC	
		CHECKED BY	
		DATE	
		PROFESSIONAL ENGINEER	
		NO.	
		DATE	
		APPROVED BY	
		REMARKS	
UTAH DEPARTMENT OF TRANSPORTATION			
ROADWAY DESIGN			
REVISIONS			

PRELIMINARY
NOT FOR CONSTRUCTION

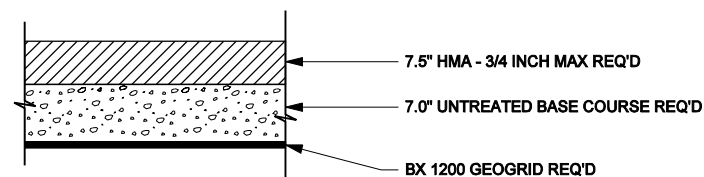
SHEET NO.		SM-17	
PROJECT	US-191; OVER COLORADO		
	RIVER BRIDGE - MOAB, UTAH		
PROJECT NUMBER	BRF-0191(58)129		
		SUMMARY SHEET	
		APPROVED	
		DRAWN BY	
		QC	
		CHECKED BY	
		DATE	
		PROFESSIONAL ENGINEER	
		NO.	
		DATE	
		APPROVED BY	
		REMARKS	
UTAH DEPARTMENT OF TRANSPORTATION			
ROADWAY DESIGN			
REVISIONS			



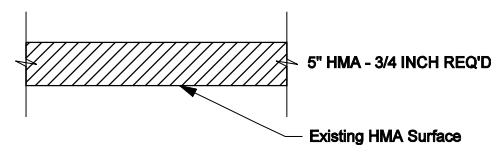
US-191 TYPICAL SECTION NO.1

NTS
US-191 STA. 201+40.55 TO STA. 209+00.00
DESIGN SPEED 50 MPH

SIDE SLOPE TREATMENT TABLE			
ALIGNMENT	STATION RANGE	SIDE SLOPE TREATMENT	SIDE APPLIED
US-191	201+40.55 TO 205+10.00	SIDE SLOPE DETAIL F	LEFT
US-191	205+10.00 TO 206+57.13	SIDE SLOPE DETAIL E	LEFT
US-191	206+57.13 TO 207+15.80	SIDE SLOPE DETAIL K	LEFT
US-191	207+15.80 TO 209+33.74	SIDE SLOPE DETAIL C	LEFT
US-191	209+33.74 TO 211+00.44	TRAIL TYPICAL SECTION NO. 2	LEFT
US-191	211+00.44 TO 214+83.65	TRAIL TYPICAL SECTION NO. 3	LEFT
US-191	214+83.65 TO 215+38.77	TRAIL TYPICAL SECTION NO. 4	LEFT
US-191	211+40.55 TO 209+36.21	TRAIL TYPICAL SECTION NO. 1	RIGHT
US-191	209+40.10 TO 210+03.67	SIDE SLOPE DETAIL L	RIGHT
US-191	210+03.67 TO 211+79.05	SIDE SLOPE DETAIL N	RIGHT
US-191	211+79.05 TO 214+68.77	SIDE SLOPE DETAIL J	RIGHT



PAVEMENT SECTION DETAIL A

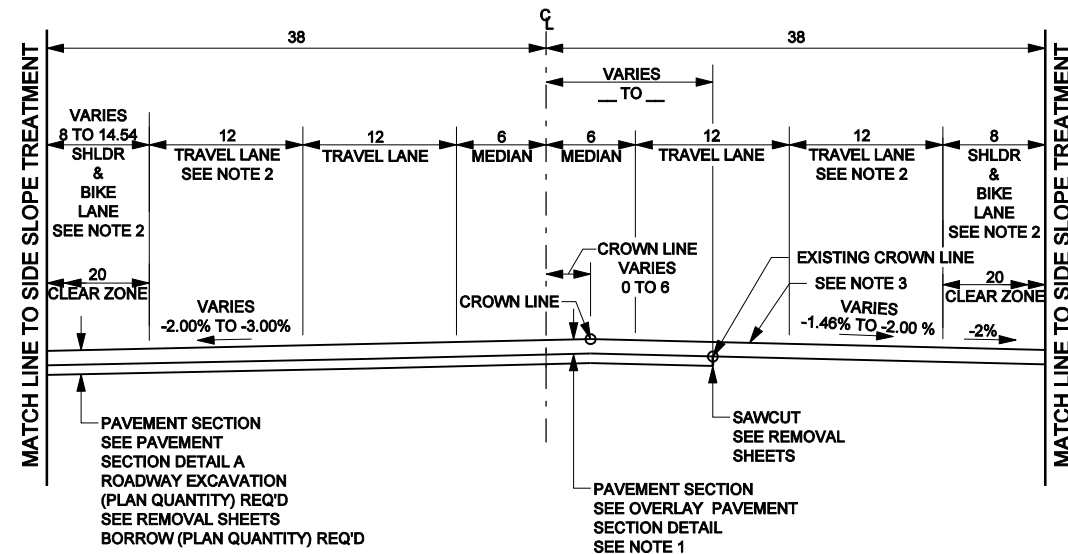


OVERLAY PAVEMENT
SECTION DETAIL

NOTE:

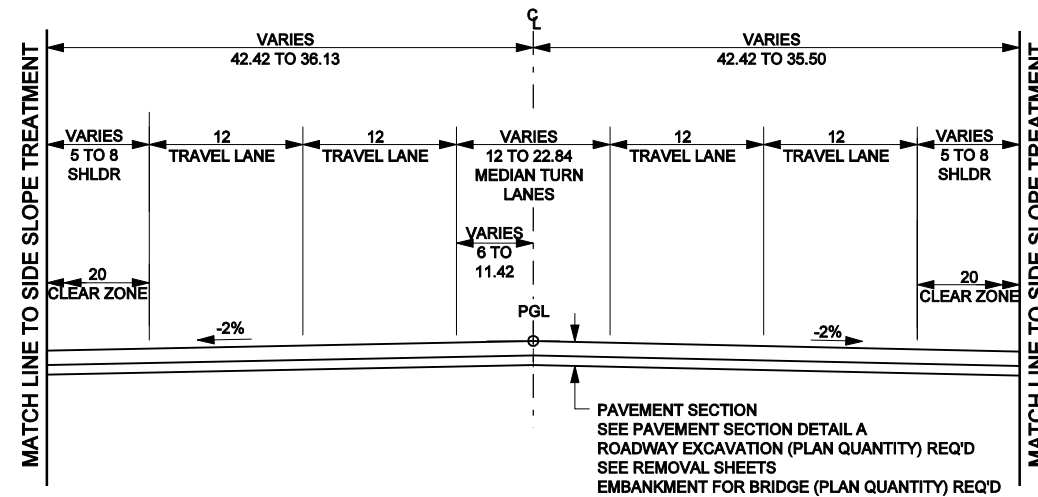
1. ROTOMILL FROM 0" TO 1 1/2" FROM US-191 STA 201+80.50 TO 204+30.50 TO TIE IN PAVEMENT OVERLAY TO EXISTING ROADWAY.
2. SEE SS SHEETS FOR STRIPING LANE TAPER.
3. MATCH EXISTING CROSS SLOPE.

PRELIMINARY
NOT FOR CONSTRUCTION



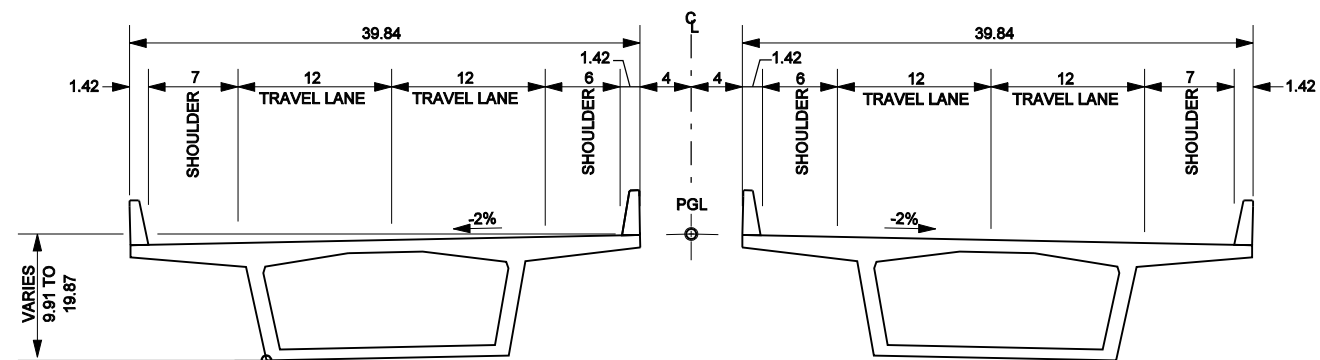
US-191 TYPICAL SECTION NO.1A

NTS
US-191 STA. 209+00.00 TO STA. 210+00.00
DESIGN SPEED 50 MPH



US-191 TYPICAL SECTION NO.2

NTS
US-191 STA. 210+00.00 LT TO STA. 215+01.27 LT
US-191 STA. 210+00.00 RT TO STA. 214+63.27 RT
US-191 STA. 225+78.27 LT TO STA. 230+20.00 LT
US-191 STA. 225+40.27 RT TO STA. 230+20.00 RT } (FOR SIDE SLOPE TREATMENT, SEE TABLE ON SHEET TS-02)
DESIGN SPEED 50 MPH



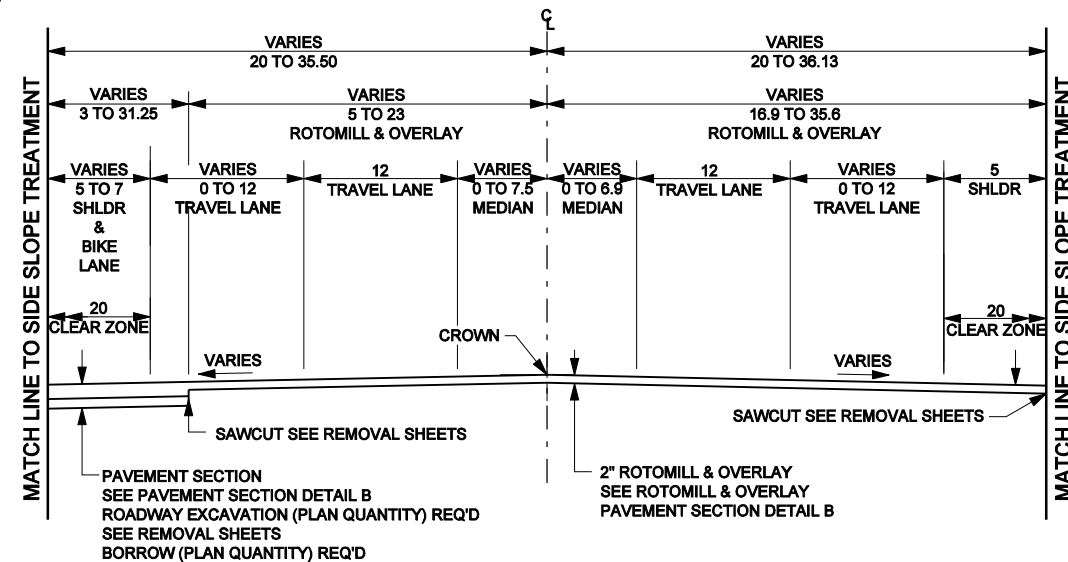
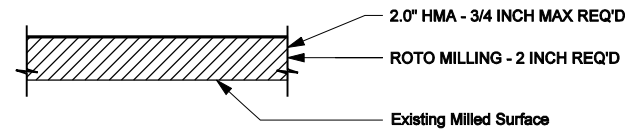
US-191 TYPICAL SECTION NO. 3

NTS
US-191 STA. 215+01.27 LT TO STA. 225+78.27 LT
US-191 STA. 214+63.27 RT TO STA. 225+40.27 RT
DESIGN SPEED 50 MPH

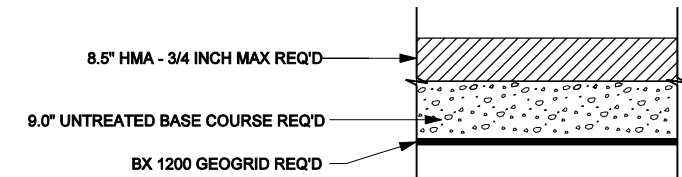
SHEET NO.		TS-01	
PROJECT		US-191; OVER COLORADO	
PROJECT NUMBER		RIVER BRIDGE - MOAB, UTAH	
		BRF-0191(58)129	
ROADWAY TYPICAL SECTIONS		APPROVED	
		PROFESSIONAL ENGINEER _____ DATE _____	
		DRAWN BY XXX	
		QC CHECKED BY XXX	
		NO. _____ DATE _____ APPROVED BY _____	
		REMARKS _____	
		REVISIONS _____	

8/4/2008 \\FSSLC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\TYPICAL_SECTIONS\5365_07_TYPICAL_SECTION_02.DGN

ROTOMILL & OVERLAY
PAVEMENT SECTION DETAIL



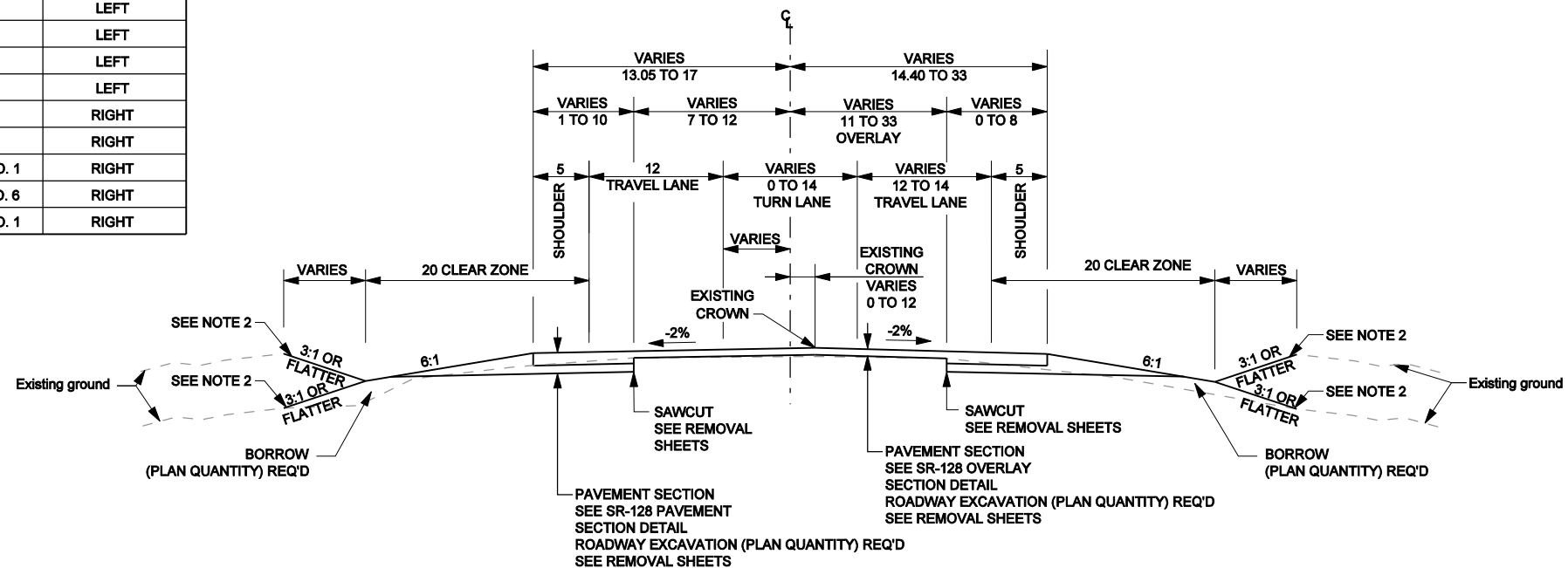
PAVEMENT SECTION DETAIL B



US-191 TYPICAL SECTION NO.4

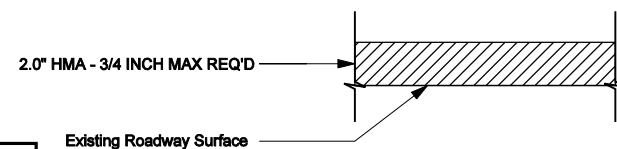
NTS
US-191 STA. 230+20.00 TO STA. 239+61.16
DESIGN SPEED 50 MPH

SIDE SLOPE TREATMENT TABLE			
ALIGNMENT	STATION RANGE	SIDE SLOPE TREATMENT	SIDE APPLIED
US-191	225.72.74 TO 226+17.42	TRAIL TYPICAL SECTION NO. 7	LEFT
US-191	226+17.42 TO 227+78.72	SIDE SLOPE DETAIL A	LEFT
US-191	226+78.72 TO 232+32.72	SIDE SLOPE DETAIL B	LEFT
US-191	232+32.72 TO 233+35.02	SIDE SLOPE DETAIL K	LEFT
US-191	233+35.03 TO 234+59.30	SIDE SLOPE DETAIL F	LEFT
US-191	234+59.30 TO 235+15.29	SIDE SLOPE DETAIL K	LEFT
US-191	235+15.29 TO 239+61.16	SIDE SLOPE DETAIL M	LEFT
US-191	225+34.74 TO 225+47.24	SIDE SLOPE DETAIL F	RIGHT
US-191	225+47.27 TO 226+27.86	SIDE SLOPE DETAIL D	RIGHT
US-191	226+27.86 TO 226+63.75	TRAIL TYPICAL SECTION NO. 1	RIGHT
US-191	226+63.75 TO 229+25.90	TRAIL TYPICAL SECTION NO. 6	RIGHT
US-191	229+25.90 TO 239+61.16	TRAIL TYPICAL SECTION NO. 1	RIGHT

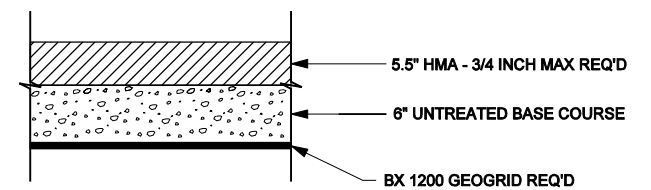


SR-128 TYPICAL SECTION NO.1

NTS
SR-128 STA. 500+40.14 TO STA. 504+00.00
DESIGN SPEED 50 MPH



SR-128 OVERLAY SECTION DETAIL

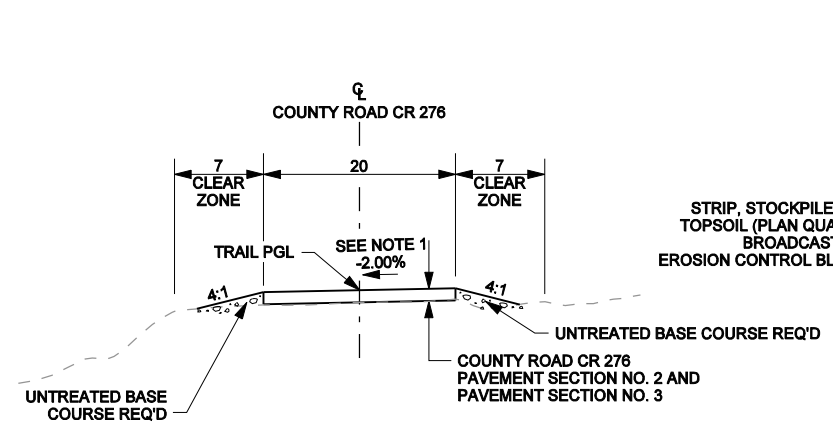


SR-128 PAVEMENT SECTION DETAIL

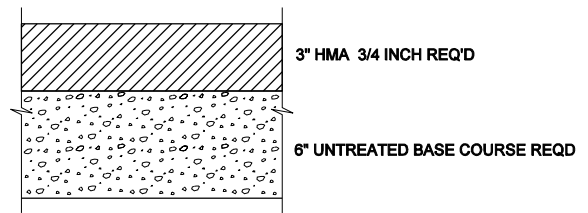
PRELIMINARY
NOT FOR CONSTRUCTION

[illegible]

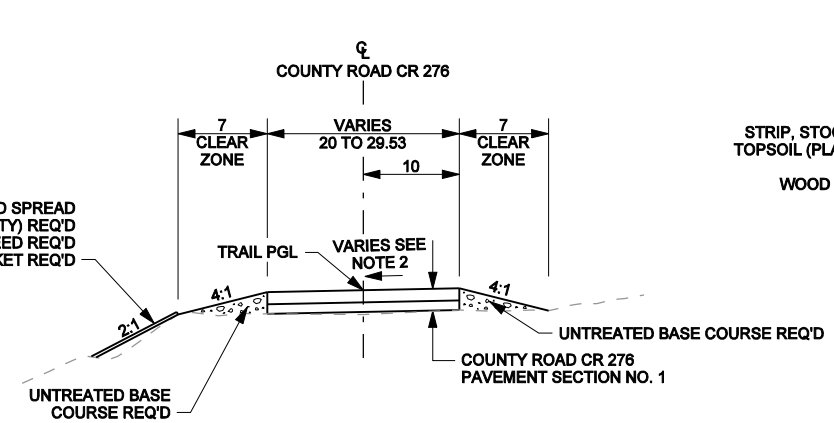
8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\TYPICAL_SECTIONS\5365_07_TYPICAL_SECTION_03.DGN



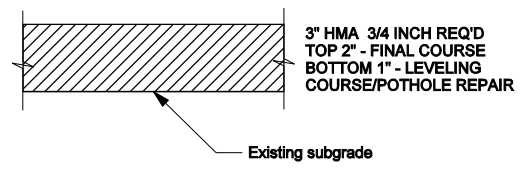
COUNTY ROAD CR 276
TYPICAL SECTION NO. 1
NTS
COUNTY ROAD CR 276 STA 48+00.00 TO STA 56+53.19
DESIGN SPEED 20 MPH



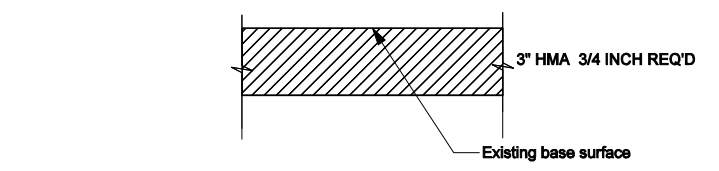
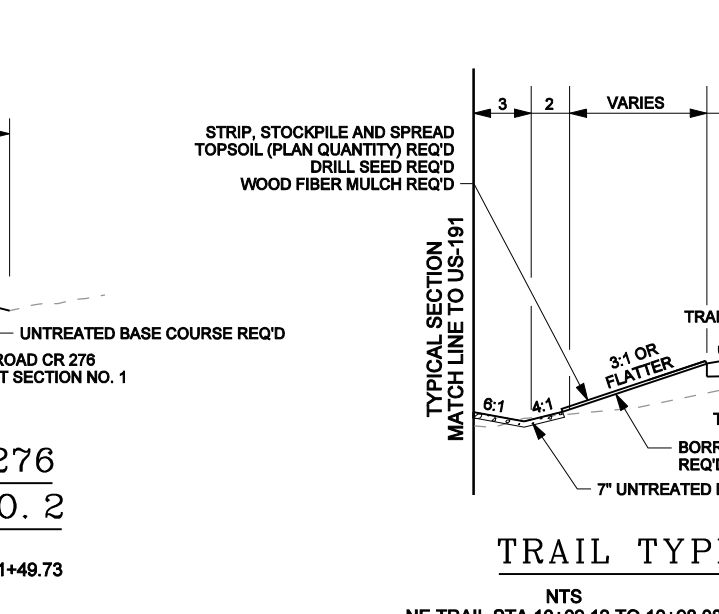
COUNTY ROAD CR 276 PAVEMENT
SECTION DETAIL NO. 1
STA 56+53.19 TO STA 61+49.73



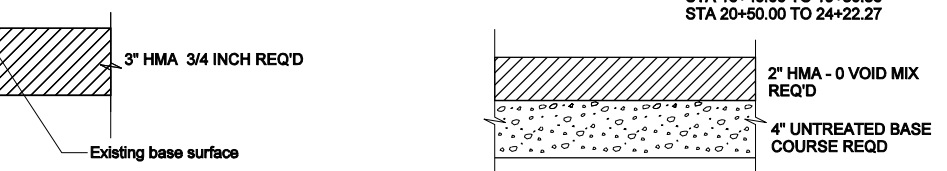
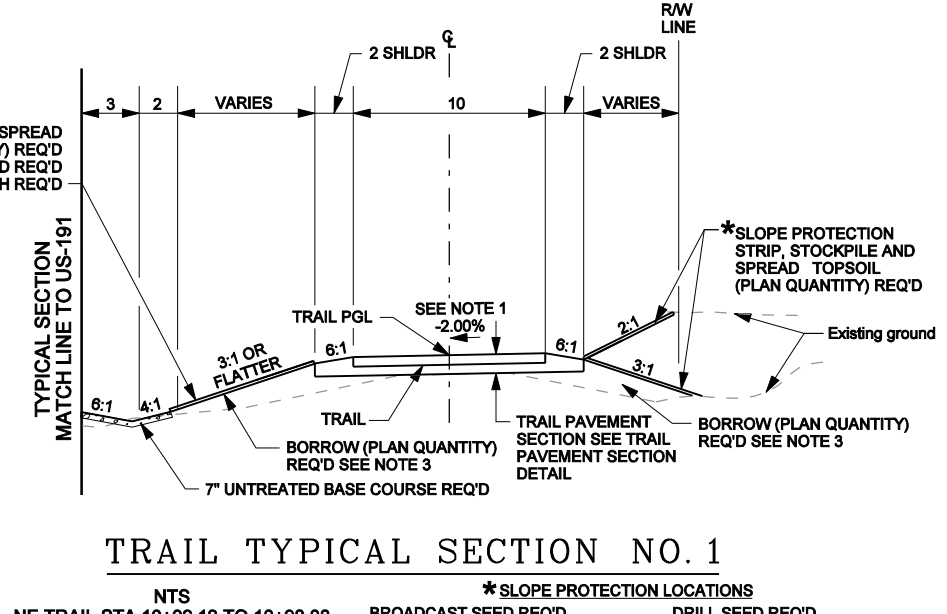
COUNTY ROAD CR 276
TYPICAL SECTION NO. 2
NTS
COUNTY ROAD CR 276 STA 56+53.19 TO STA 61+49.73
DESIGN SPEED 20 MPH



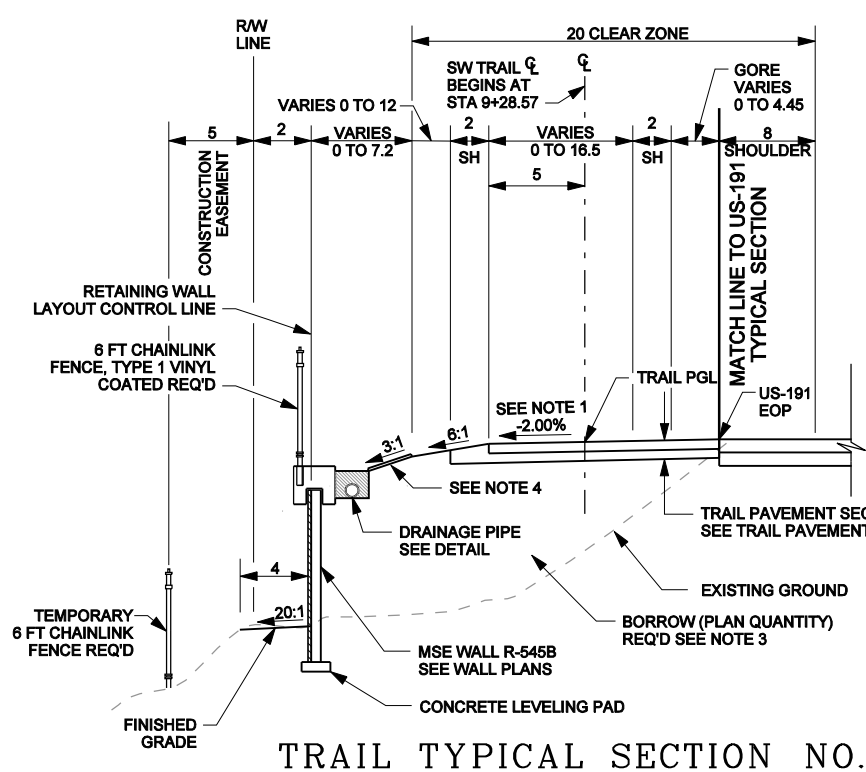
COUNTY ROAD CR 276 PAVEMENT
SECTION DETAIL NO. 2
COUNTY ROAD CR 276 STA 49+90.00 TO STA 56+53.19



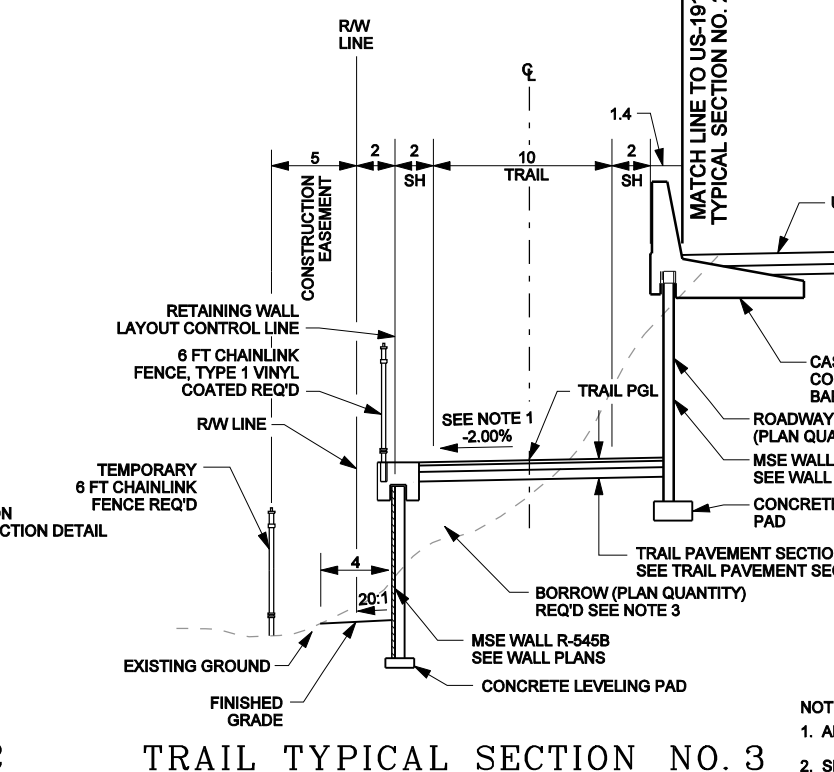
COUNTY ROAD CR 276 PAVEMENT
SECTION DETAIL NO. 3
COUNTY ROAD CR 276 STA 48+00.00 TO 49+90.00



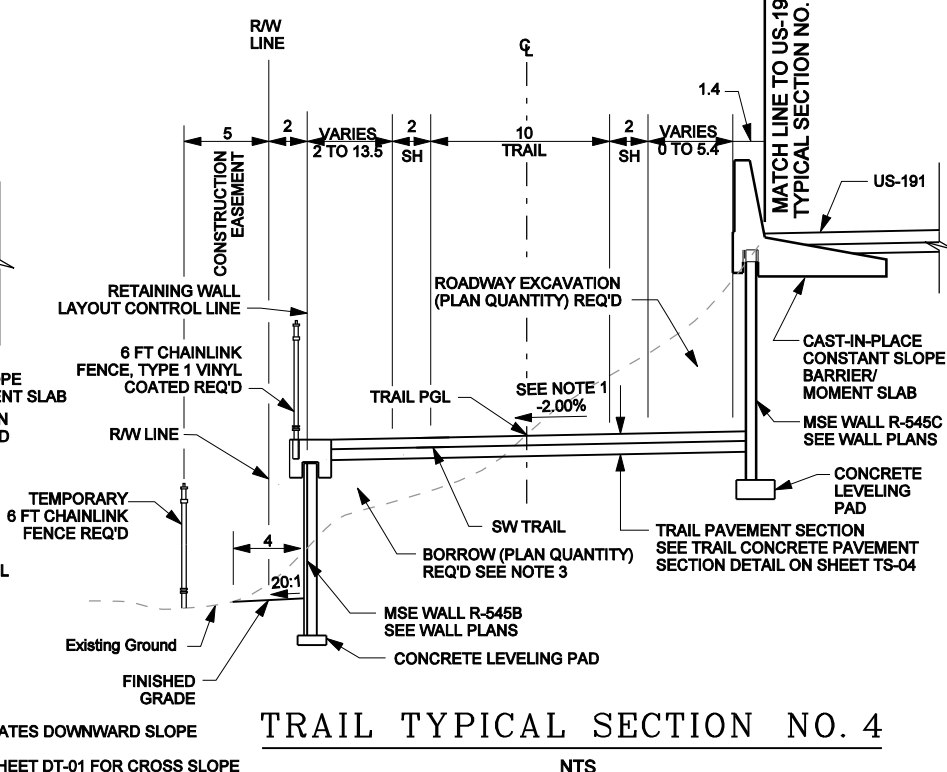
TRAIL TYPICAL SECTION NO. 1
NTS
NE TRAIL STA 10+09.12 TO 10+98.08
NE TRAIL STA 13+36.43 TO 24+22.27
DESIGN SPEED 20 MPH
*SLOPE PROTECTION LOCATIONS
BROADCAST SEED REQ'D
EROSION CONTROL BLANKET REQ'D
STA 15+10.00 TO 16+40.00
STA 19+50.36 TO 20+50.00
DRILL SEED REQ'D
WOOD FIBER MULCH REQ'D
STA 10+09.12 TO 10+98.08
STA 13+36.43 TO 15+10.00
STA 16+40.00 TO 19+50.36
STA 20+50.00 TO 24+22.27



TRAIL TYPICAL SECTION NO. 2
NTS
SW TRAIL STA 8+77.94 TO 10+43.93
DESIGN SPEED 20 MPH



TRAIL TYPICAL SECTION NO. 3
NTS
SW TRAIL STA 10+43.93 TO STA 14+28.39
DESIGN SPEED 20 MPH



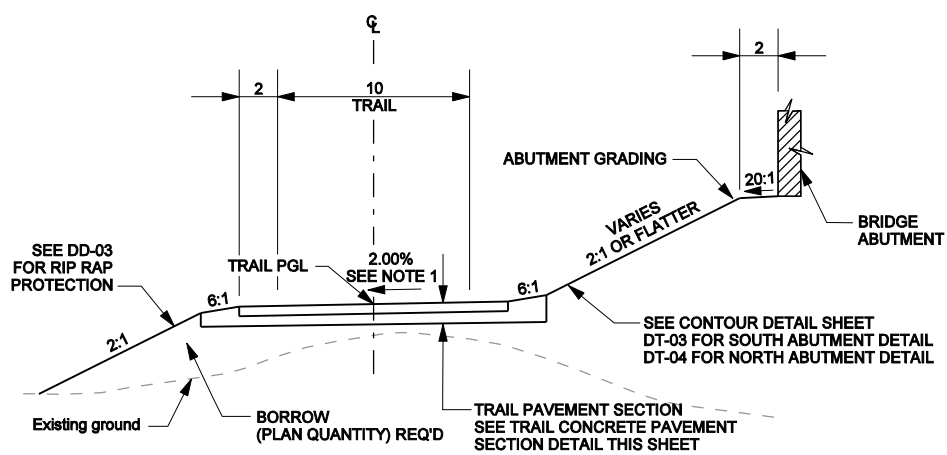
TRAIL TYPICAL SECTION NO. 4
NTS
SW TRAIL STA 14+28.39 TO STA 14+85.26
DESIGN SPEED 20 MPH

- NOTE:
1. ARROW INDICATES DOWNWARD SLOPE
 2. SEE DETAIL SHEET DT-01 FOR CROSS SLOPE DESCRIPTION
 3. BORROW (PLAN QUANTITY) IS MATERIAL OUTSIDE OF THE WALL REINFORCEMENT ZONE. MATERIAL INSIDE OF THE WALL REINFORCEMENT ZONE IS PAID WITH THE LUMP SUM QUANTITY FOR WALL. ASSUME THE WIDTH OF WALL REINFORCING EQUALS 80% OF WALL HEIGHT
 4. SEE SIDESLOPE DETAIL C SHEET SDT-01, FOR LANDSCAPING DETAIL

PRELIMINARY
NOT FOR CONSTRUCTION

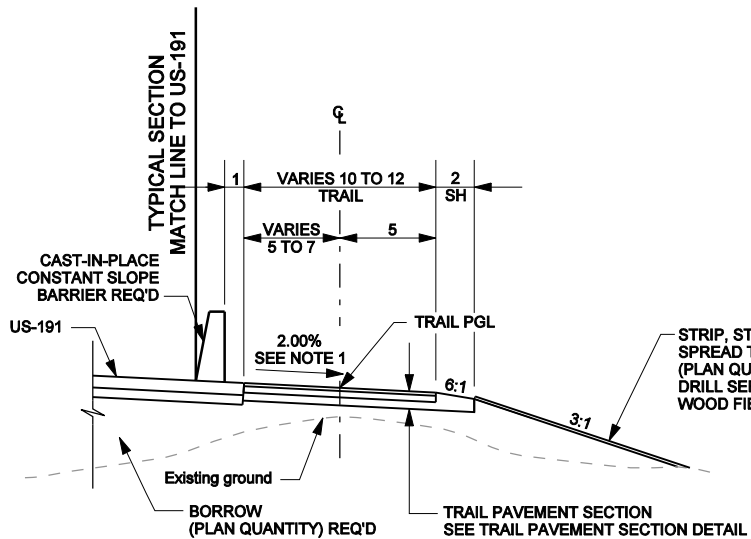
UTAH DEPARTMENT OF TRANSPORTATION				ROADWAY DESIGN				TRAIL TYPICAL SECTIONS			
US-191; OVER COLORADO				RIVER BRIDGE - MOAB, UTAH				BRF-0191(58)129			
PROJECT				PROJECT NUMBER				SHEET NO.			
APPROVED				APPROVED				APPROVED			
DRAWN BY				QC				CHECKED BY			
XXX				XXX				XXX			
DATE				DATE				DATE			
REVISIONS				REVISIONS				REVISIONS			
NO.				NO.				NO.			
APPROVED BY				APPROVED BY				APPROVED BY			
REMARKS				REMARKS				REMARKS			

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07-SHEET_FILES\TYPICAL_SECTIONS\5365_07_TYPICAL_SECTION_04.DGN



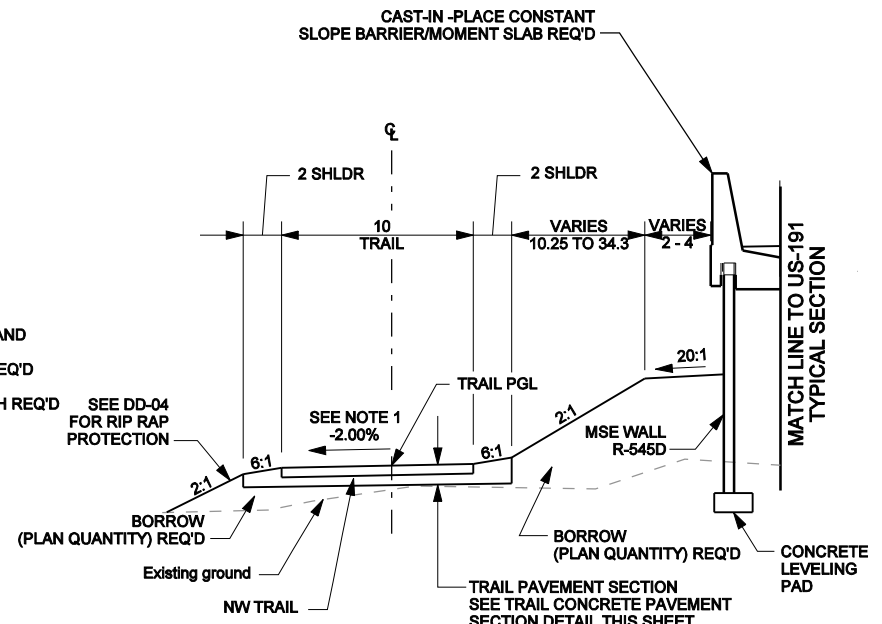
TRAIL TYPICAL SECTION NO. 5

NTS
SW TRAIL STA 14+85.26 TO 16+56.70
NW TRAIL STA 40+37.38 TO 41+19.17
DESIGN SPEED 20 MPH



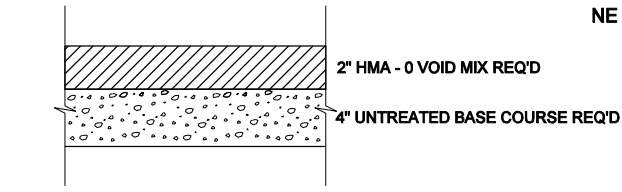
TRAIL TYPICAL SECTION NO. 6

NTS
NE TRAIL STA 10+98.08 TO 13+36.43
DESIGN SPEED 20 MPH

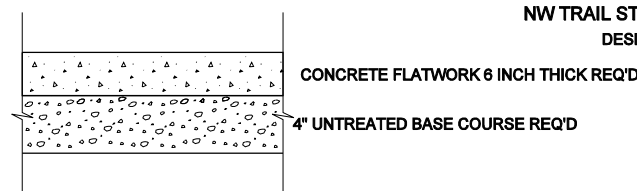


TRAIL TYPICAL SECTION NO. 7

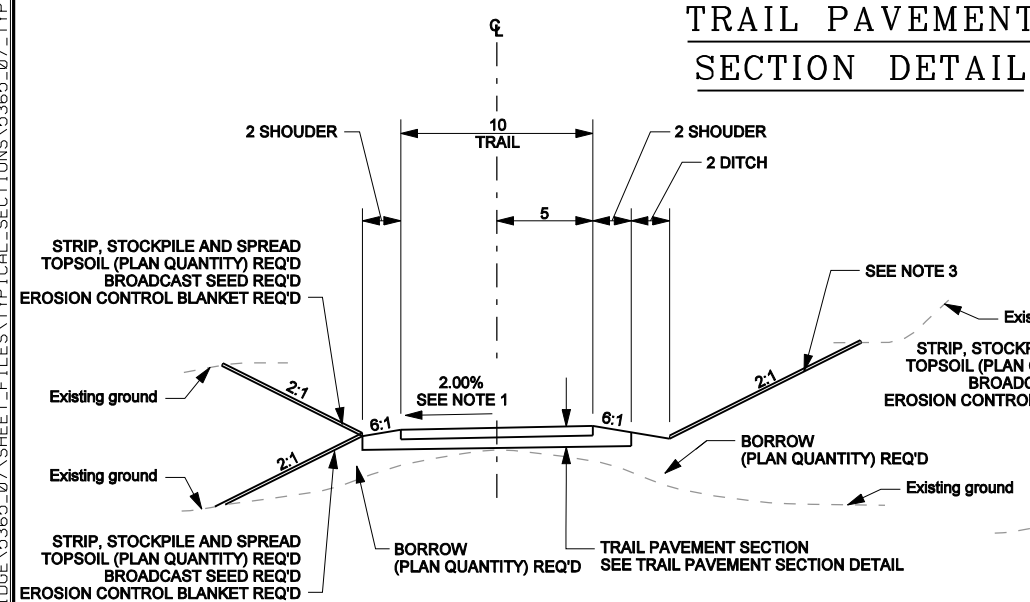
NTS
NW TRAIL STA 41+19.17 TO 42+36.86
DESIGN SPEED 20 MPH



TRAIL PAVEMENT SECTION DETAIL

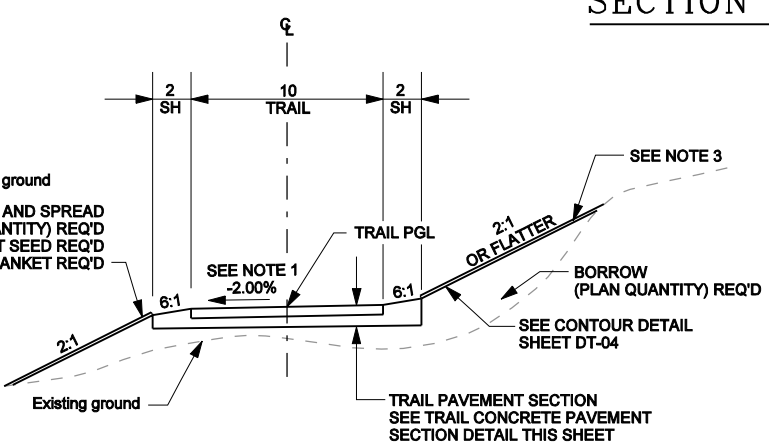


TRAIL CONCRETE PAVEMENT SECTION DETAIL



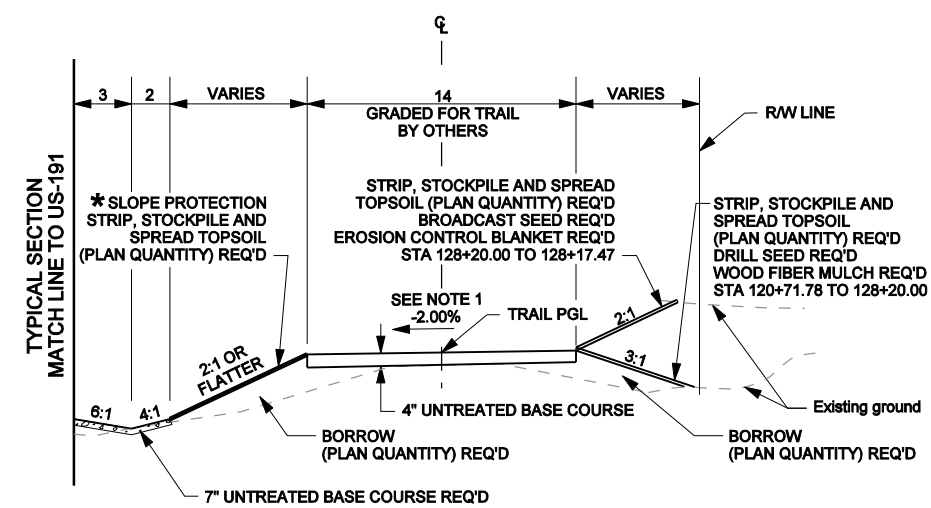
TRAIL TYPICAL SECTION NO. 8

NTS
*NW TRAIL STA 42+36.86 TO 48+53.99
DESIGN SPEED 20 MPH
*SEE DETAIL A THIS SHEET



TRAIL TYPICAL SECTION NO. 9

NTS
NW TRAIL STA 39+08.55 TO 40+37.38
DESIGN SPEED 20 MPH



TRAIL TYPICAL SECTION NO. 10

NTS
SE TRAIL STA 120+71.78 TO 128+47.47
DESIGN SPEED 20 MPH

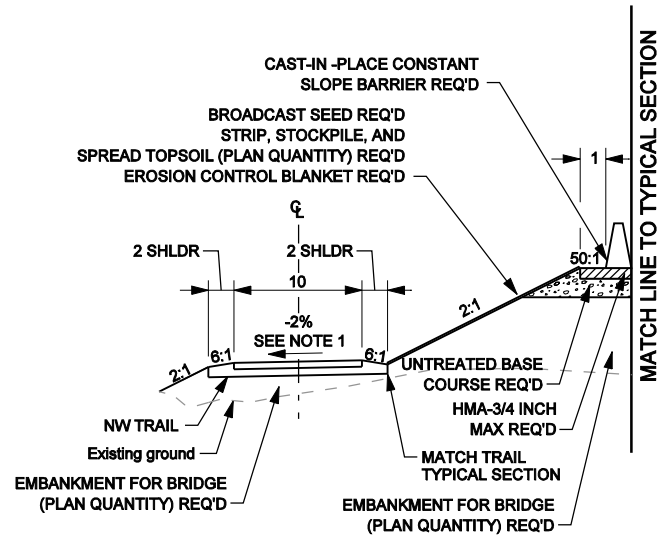
*SLOPE PROTECTION LOCATIONS
BROADCAST SEED REQ'D
EROSION CONTROL BLANKET REQ'D
STA 123+92.00 TO 126+40.00
STA 126+80.00 TO 128+10.00
DRILL SEED REQ'D
WOOD FIBER MULCH REQ'D
STA 120+71.78 TO 123+92.00
STA 126+40.00 TO 126+80.00
STA 128+10.00 TO 128+47.97

PRELIMINARY
NOT FOR CONSTRUCTION

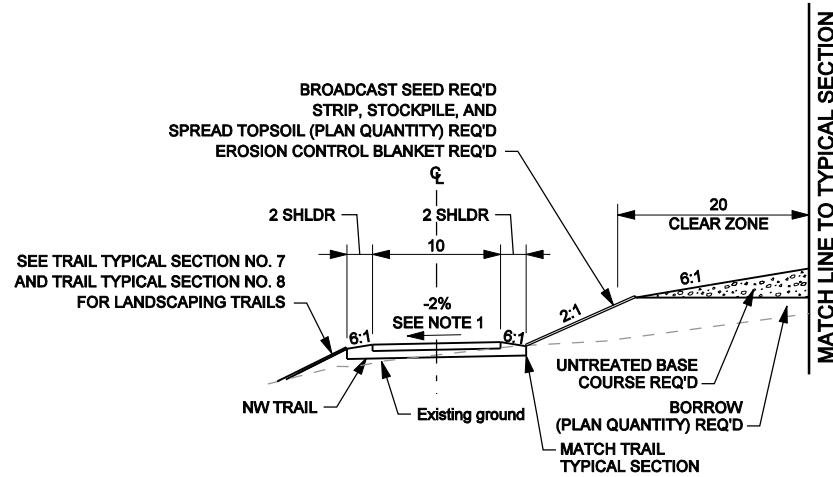
NOTE:
1. ARROW INDICATES DOWNWARD SLOPE
2. SEE DETAIL SHEET DT-01 FOR CROSS SLOPE DESCRIPTION
3. SEE SIDESLOPE DETAIL A AND DETAIL B SHEET SDT-01, FOR LANDSCAPING DETAIL

REVISIONS				UTAH DEPARTMENT OF TRANSPORTATION			
				ROADWAY DESIGN			
				DRAWN BY		XXX	DATE
				QC CHECKED BY		XXX	DATE
				APPROVED			DATE
				PROFESSIONAL ENGINEER			DATE
				US-191; OVER COLORADO		TRAIL TYPICAL SECTIONS	
				RIVER BRIDGE - MOAB, UTAH		BRF-0191(58)129	
				PROJECT		PROJECT NUMBER	
				SHEET NO.		TS-04	

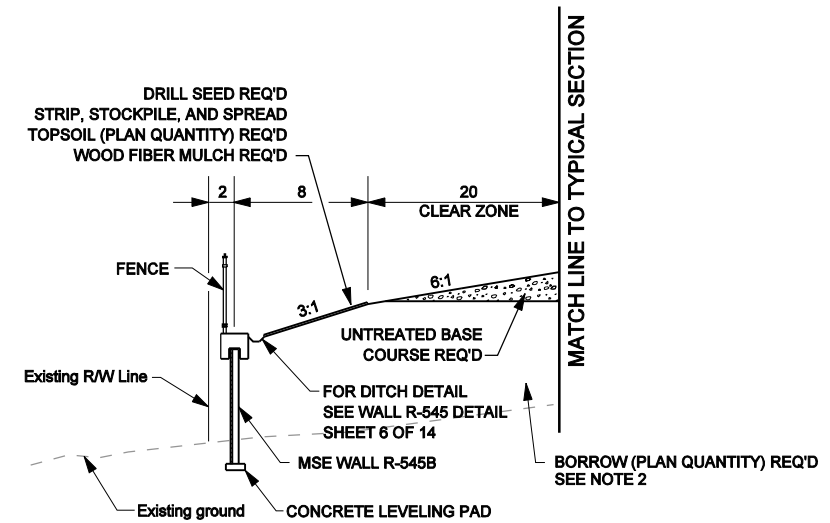
8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365-07\SHEET_FILES\TYPICAL_SECTIONS\5365-07-SIDE_SLOPE_01.DGN



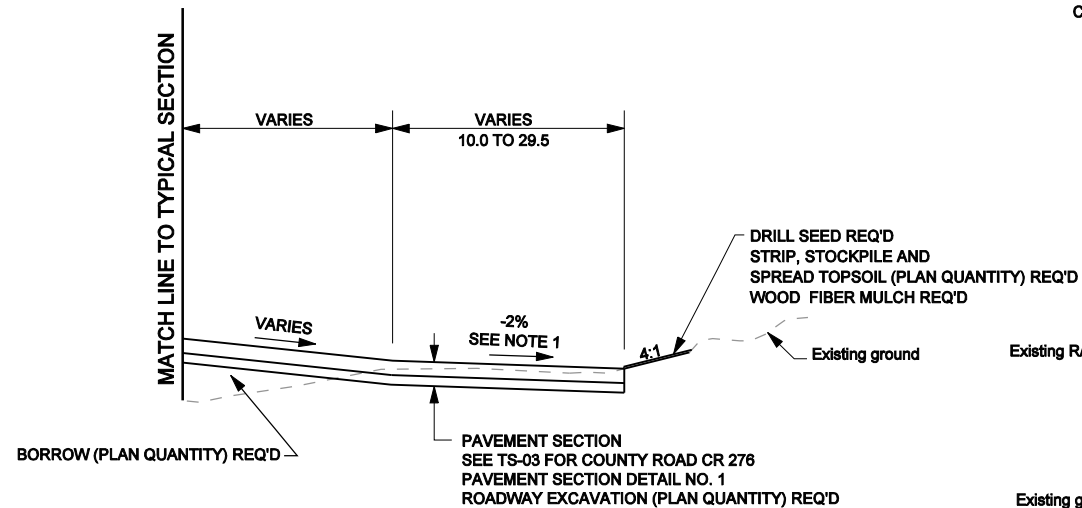
SIDE SLOPE DETAIL A



SIDE SLOPE DETAIL B

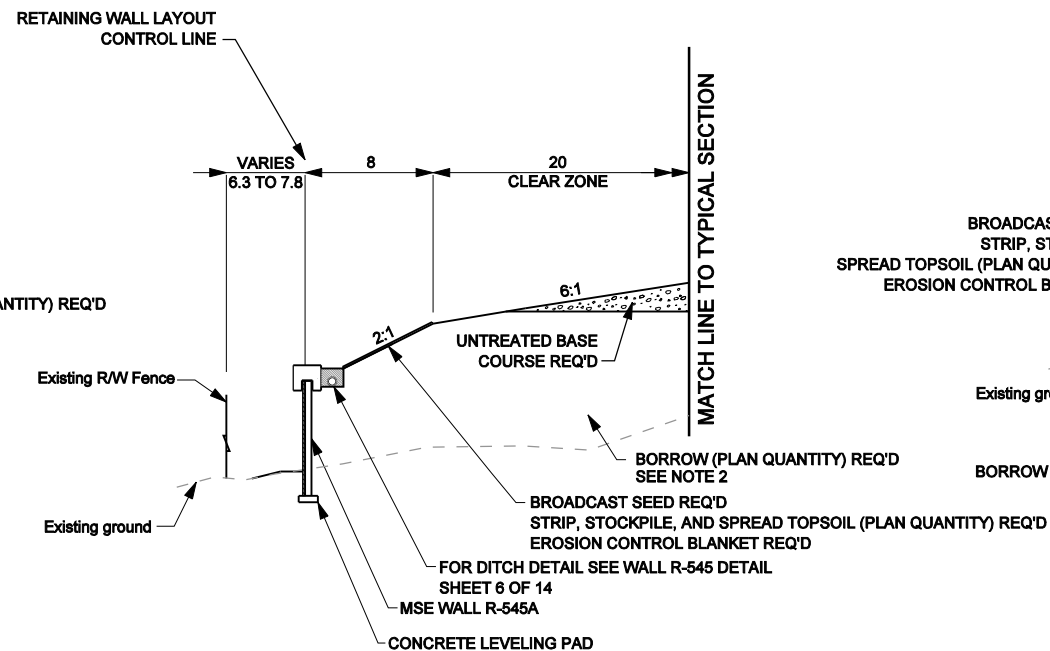


SIDE SLOPE DETAIL C

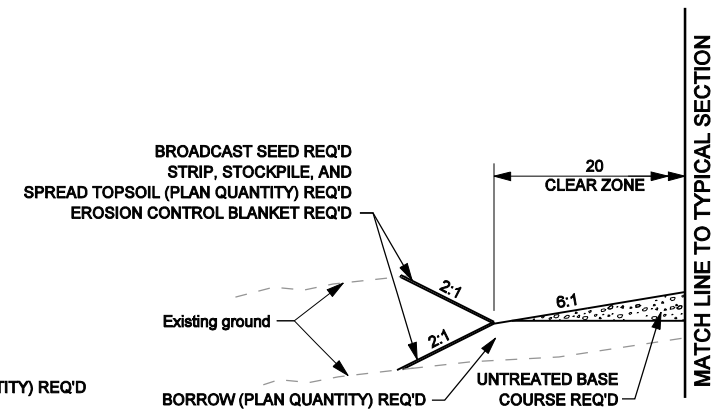


SIDE SLOPE DETAIL D

SEE DT-01 FOR DIMENSIONS AND SLOPES



SIDE SLOPE DETAIL E



SIDE SLOPE DETAIL F

NOTE:

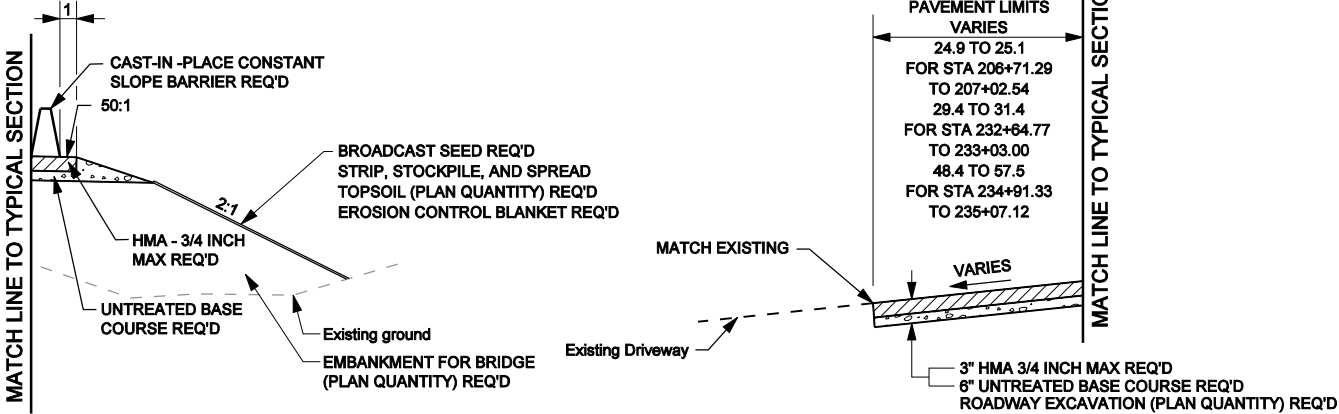
1. ARROW INDICATES DOWNWARD SLOPE
2. BORROW (PLAN QUANTITY) IS MATERIAL OUTSIDE OF THE WALL REINFORCEMENT ZONE. MATERIAL INSIDE OF THE WALL REINFORCEMENT ZONE IS PAID WITH THE LUMP SUM QUANTITY FOR WALL. ASSUME THE WIDTH OF WALL REINFORCING EQUALS 80% OF WALL HEIGHT

PRELIMINARY
NOT FOR CONSTRUCTION

SHEET NO.		SDT-01		UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
				ROADWAY DESIGN							
PROJECT	US-191; OVER COLORADO			APPROVED				DRAWN BY	XXX		
	RIVER BRIDGE - MOAB, UTAH							QC CHECKED BY	XXX		
PROJECT NUMBER	BRF-0191(58)129			PROFESSIONAL ENGINEER				DATE			
	SIDE SLOPE DETAILS										
								NO.	DATE	APPROVED BY	REMARKS

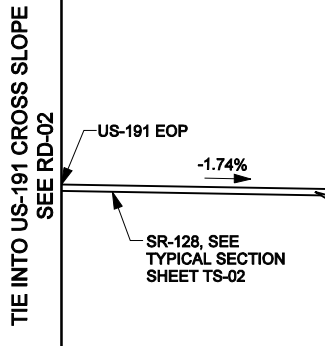
8/4/2008

PRELIMINARY
NOT FOR CONSTRUCTION

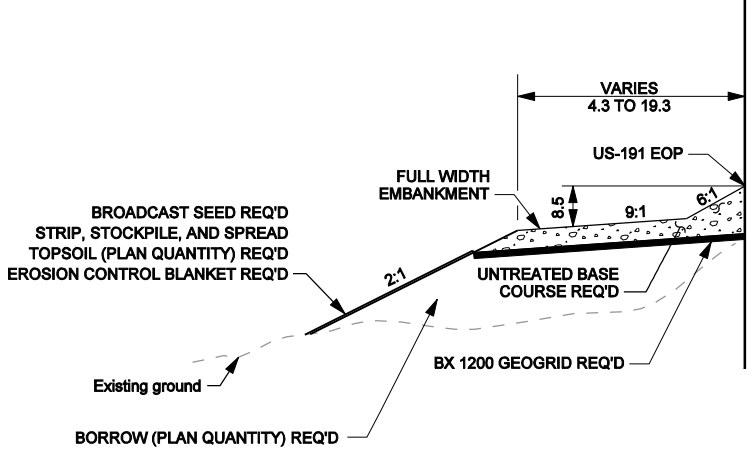


SIDE SLOPE DETAIL J

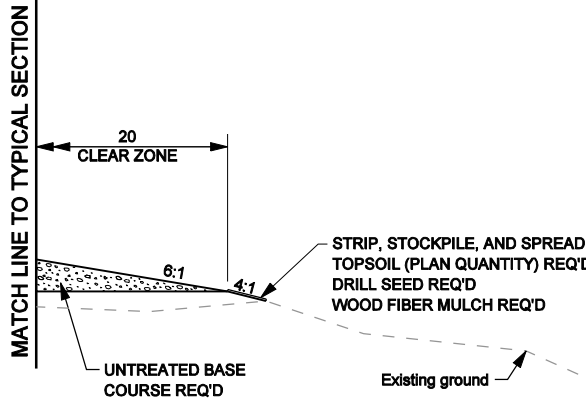
SIDE SLOPE DETAIL K



SIDE SLOPE DETAIL. I



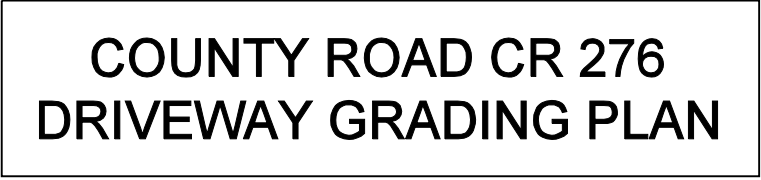
SIDE SLOPE DETAIL M



SIDE SLOPE DETAIL, N

NOTE:
1. ARROW INDICATES DOWNWARD SLOPE
2. SIDE SLOPE TREATMENT (I) DOES NOT EXIST

[illegible]



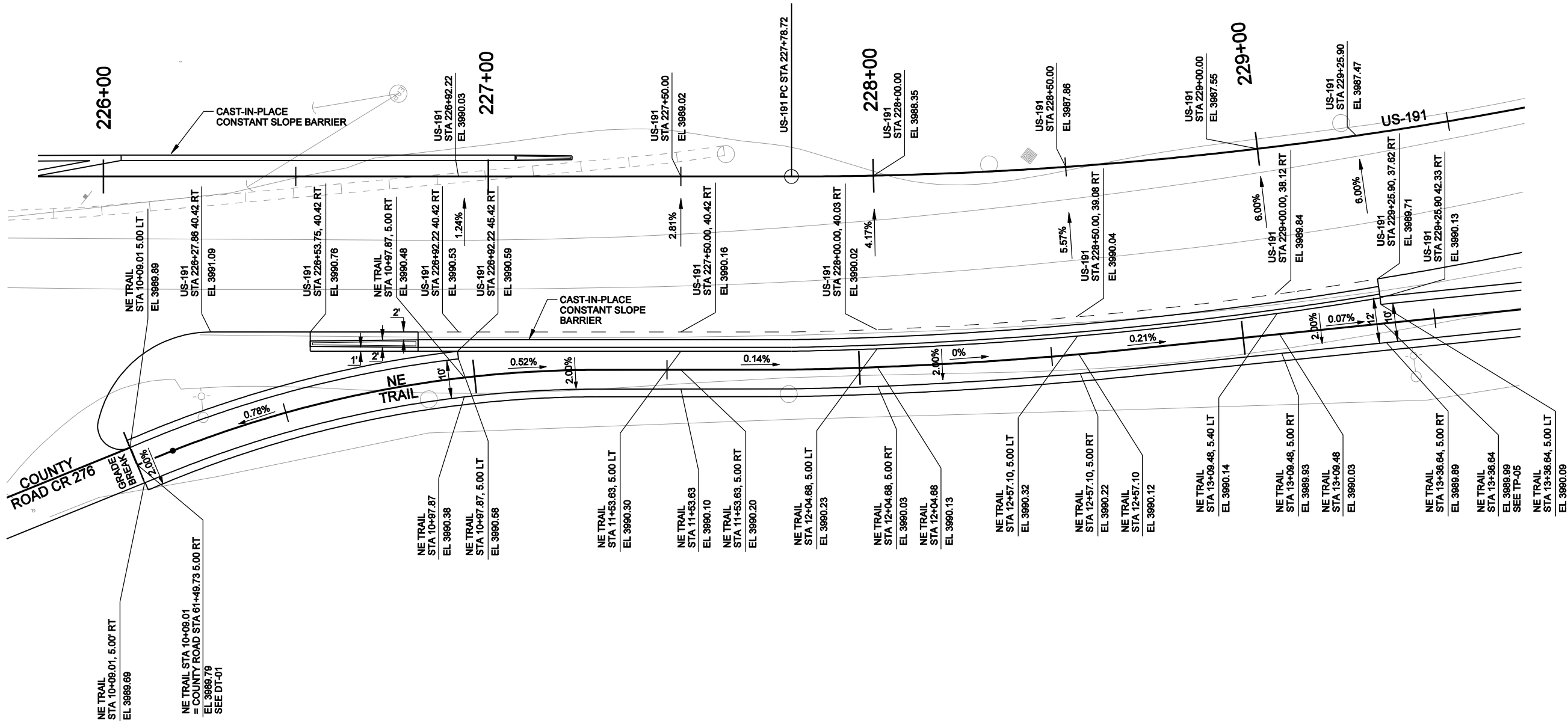
PRELIMINARY
NOT FOR CONSTRUCTION

- NOTES:**
1. FOR COUNTY ROAD CR 276 PROFILE, SEE SHEET RP-04
 2. FOR NW TRAIL PROFILE, SEE SHEET TP-01
 3. ARROW INDICATES A DOWNWARD SLOPE

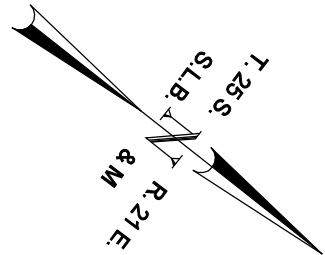
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8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\DETAILS\5365_07_DT-02.DGN

PRELIMINARY
NOT FOR CONSTRUCTION



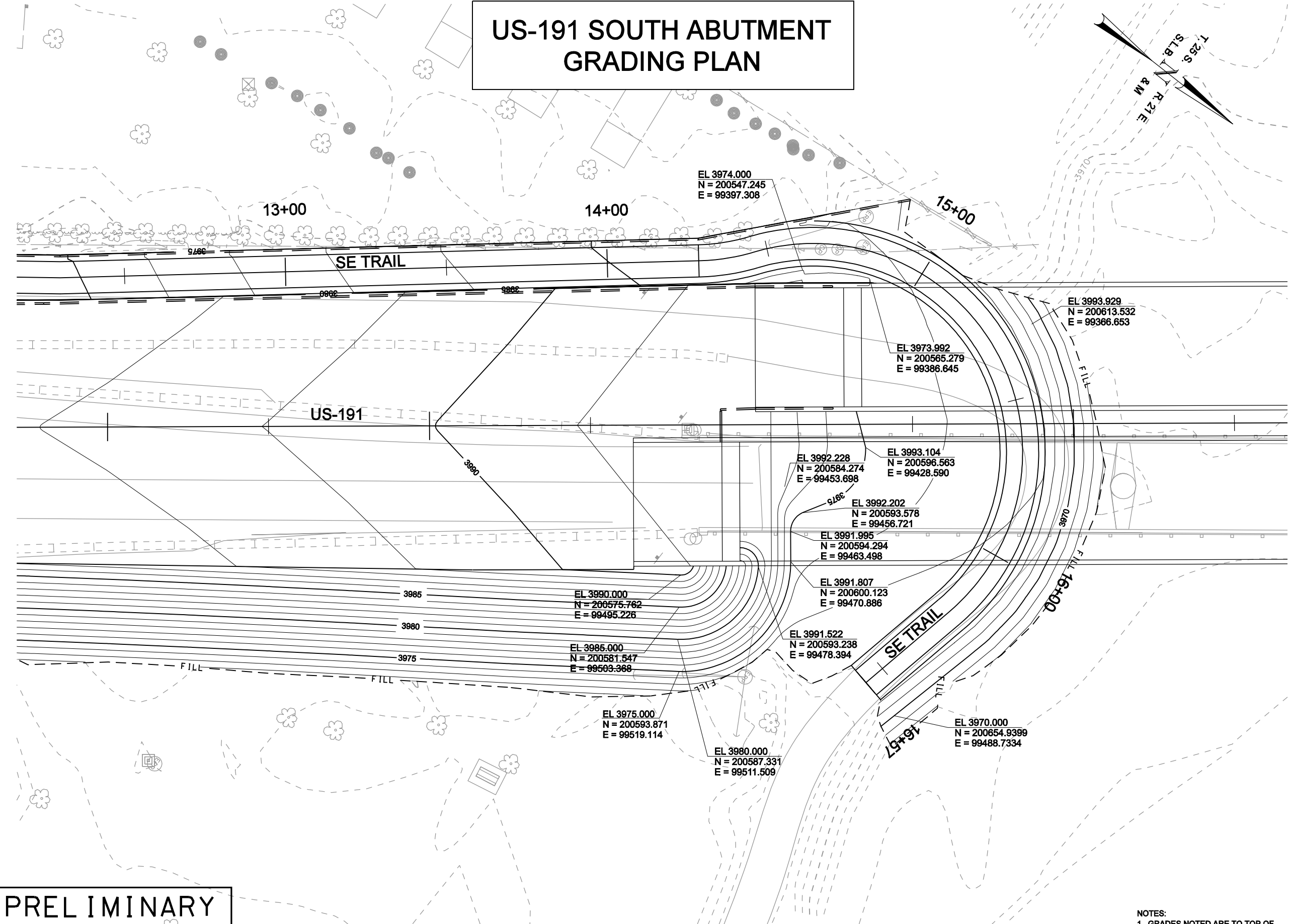
NE TRAIL
GRADING PLAN



NOTES:
1. ARROW INDICATES A DOWNWARD SLOPE

US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
PROJECT	RIVER BRIDGE - MOAB, UTAH	ROADWAY DESIGN		DRAWN BY		NO.		DATE	
PROJECT NUMBER	BRF-0191(58)129	APPROVED		QC CHECKED BY		APPROVED BY		REMARKS	
DETAIL SHEET		PROFESSIONAL ENGINEER		DATE					
SHEET NO.		DT-02							

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365-07\SHEET_FILES\DETAILS\5365-07_DT-03.DGN



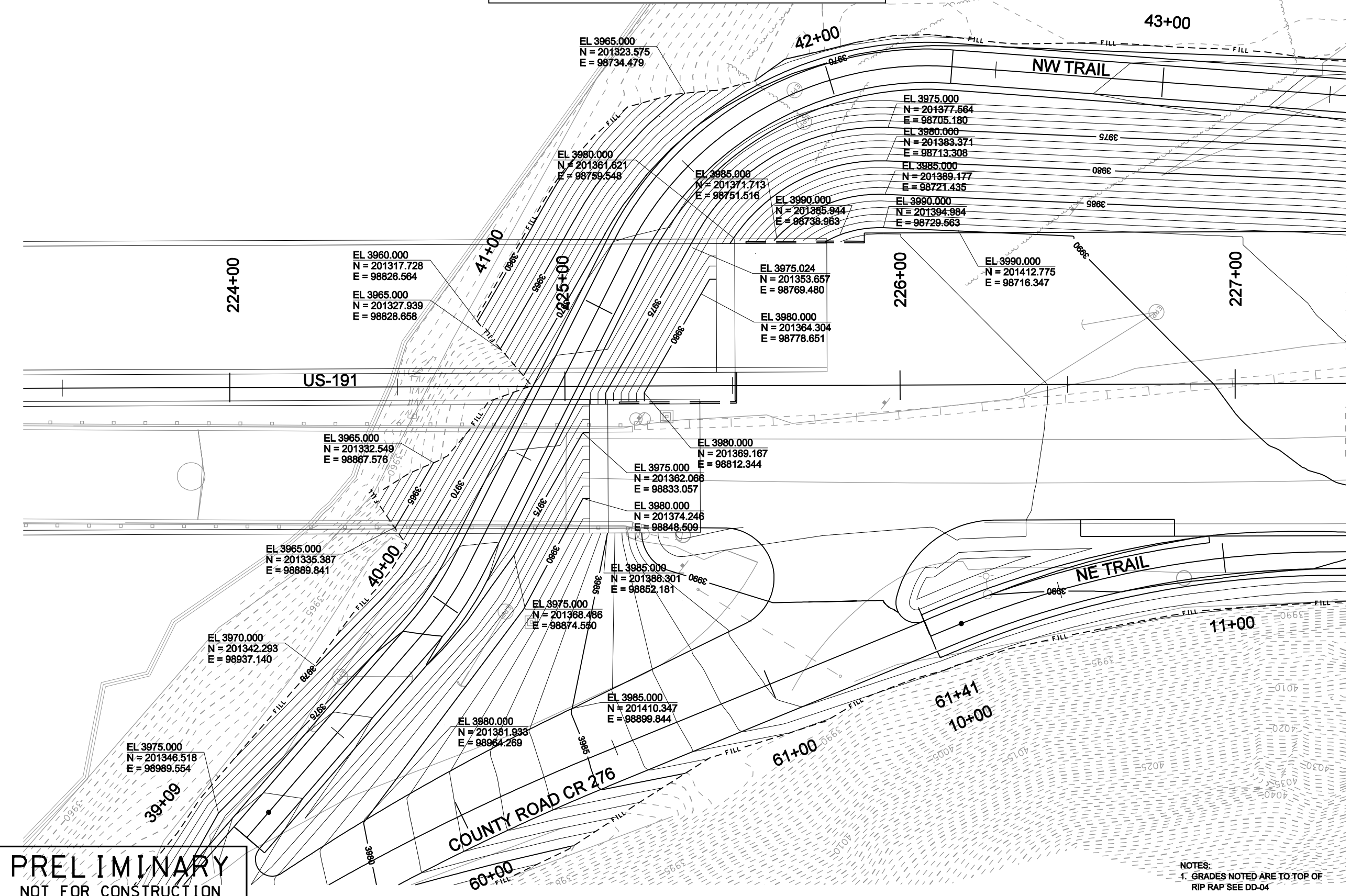
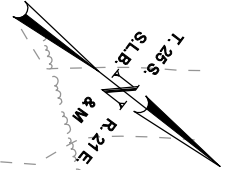
PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:
1. GRADES NOTED ARE TO TOP OF
RIP RAP SEE DD-03

SHEET NO. DT-03		PROJECT	US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN					REVISIONS			
			RIVER BRIDGE - MOAB, UTAH										
PROJECT NUMBER	BRF-0191(58)129		APPROVED		DRAWN BY	FJB		QC CHECKED BY	NO.	DATE	APPROVED BY	REMARKS	
DETAIL SHEET					PROFESSIONAL ENGINEER		DATE						

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\5365_07-DT-04.DGN

US-191 NORTH ABUTMENT GRADING PLAN

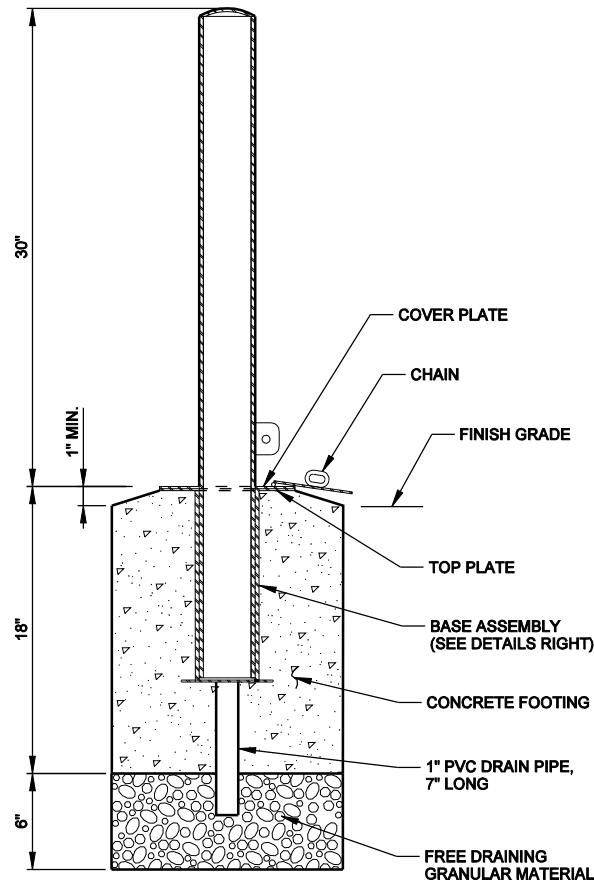


PRELIMINARY
NOT FOR CONSTRUCTION

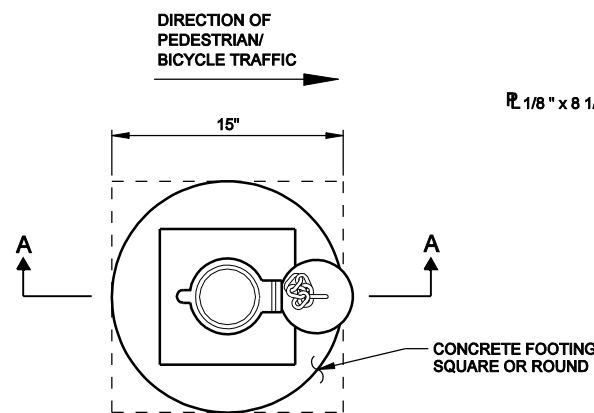
NOTES:
1. GRADES NOTED ARE TO TOP OF
RIP RAP SEE DD-04

UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
PROJECT		APPROVED		NO.		DATE	
US-191; OVER COLORADO		ROADWAY DESIGN		FJB		APPROVED BY	
RIVER BRIDGE - MOAB, UTAH		BRF-0191(58)129		QC		REMARKS	
DETAIL SHEET		DATE		CHECKED BY			
		PROFESSIONAL ENGINEER					

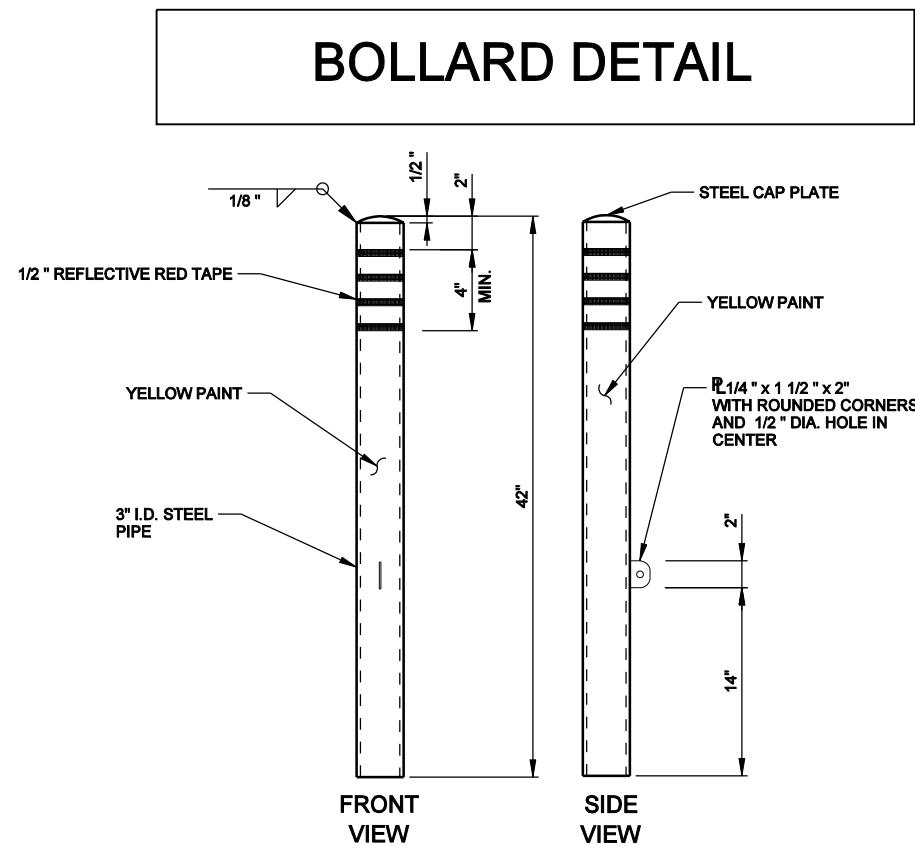
8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\DETAILS\5365_07_DT-05_BOLLARD.DGN



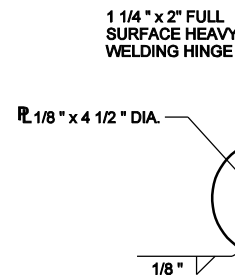
SECTION A-A



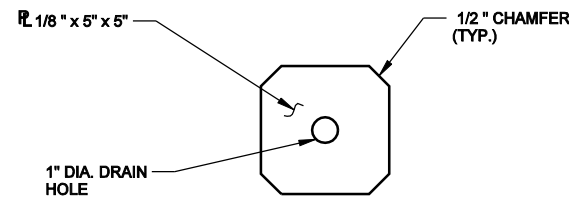
PLAN



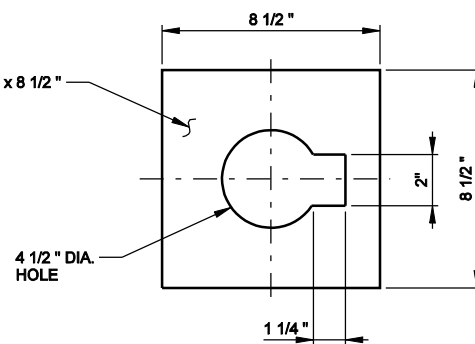
BOLLARD DETAIL



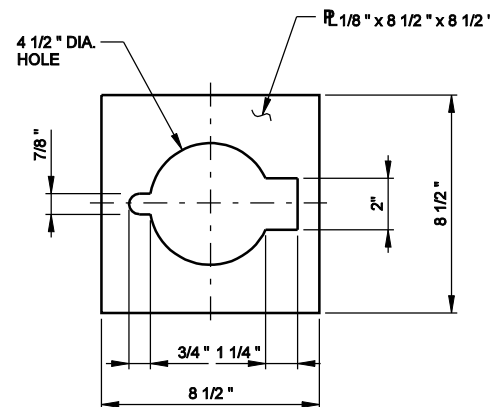
CAP & HINGE



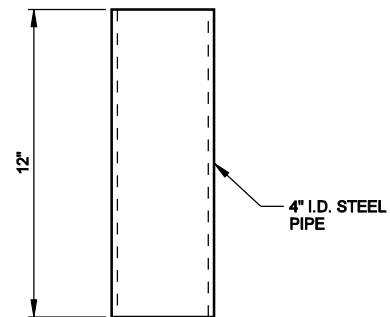
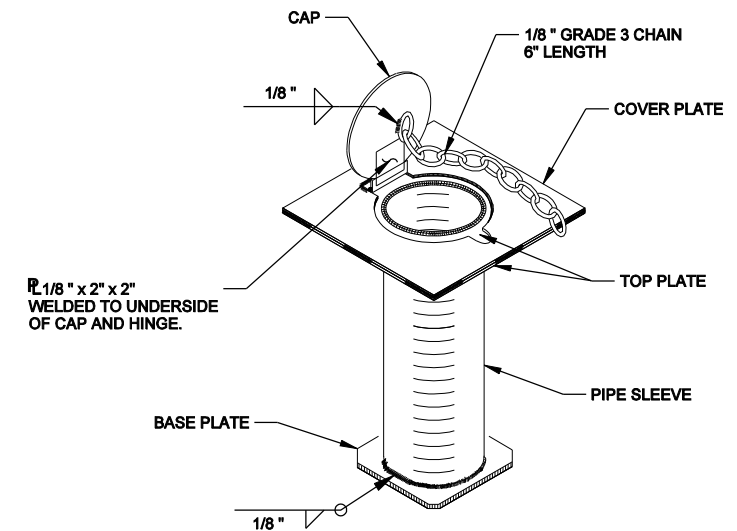
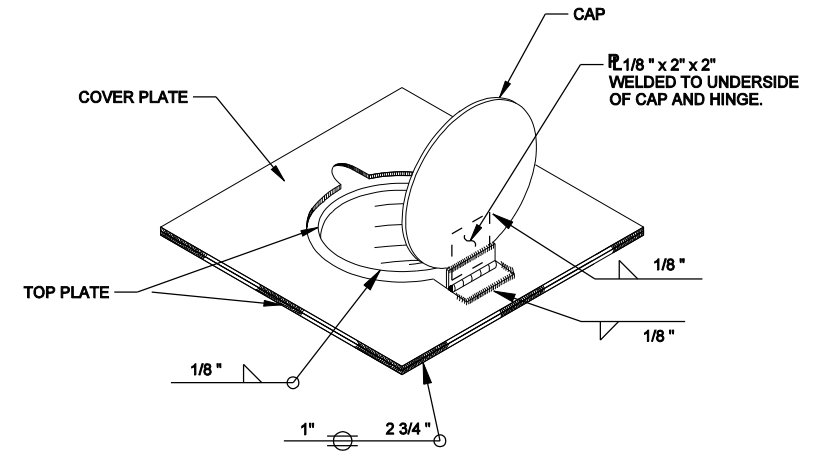
BASE PLATE
BASE ASSEMBLY



TOP PLATE



COVER PLATE

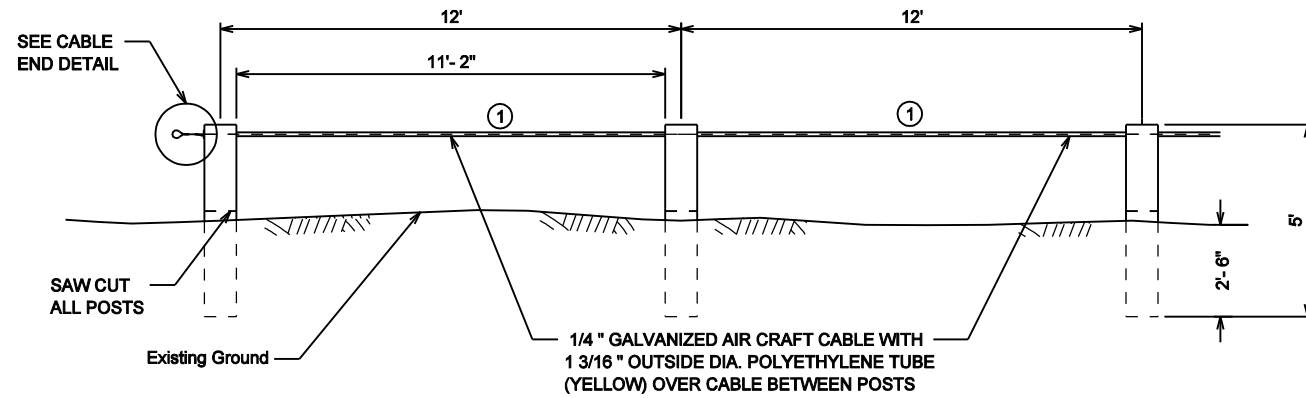


PIPE SLEEVE

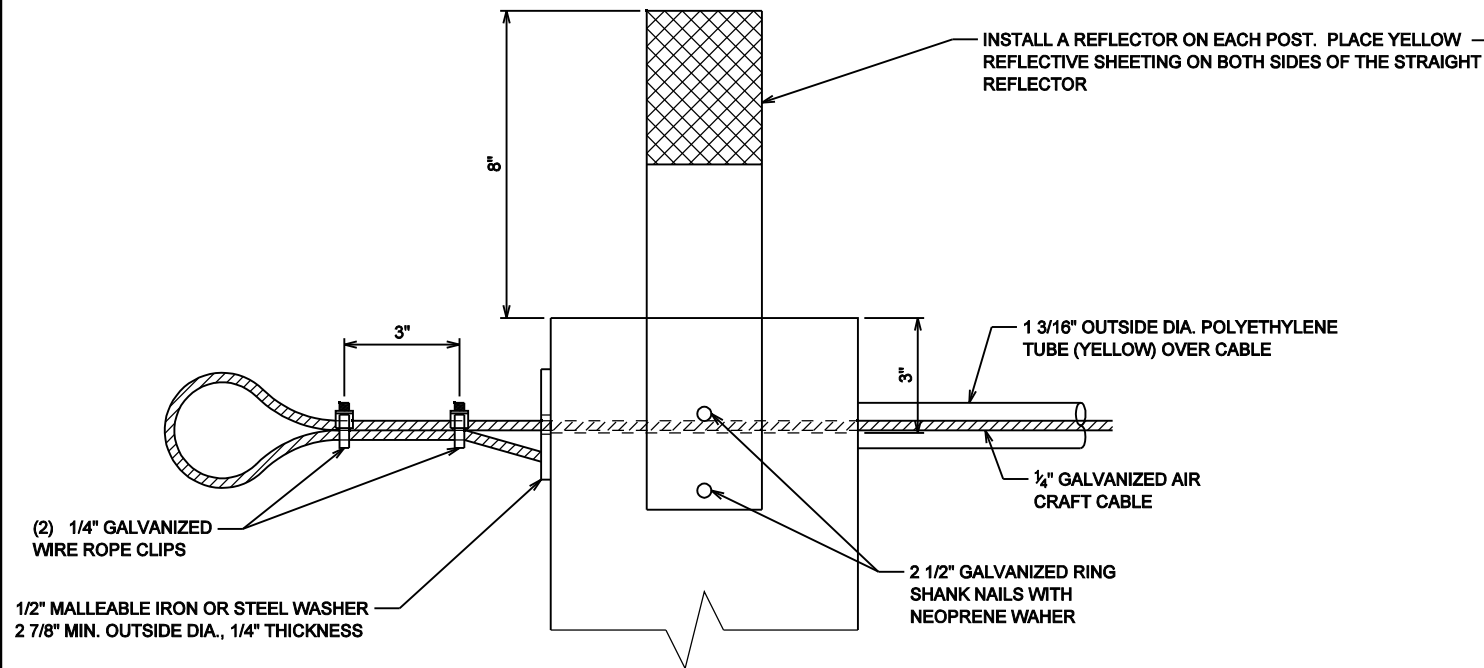
UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
ROADWAY DESIGN				NO.	DATE	APPROVED BY	REMARKS
APPROVED				XXX	XXX	XXX	XXX
DRAWN BY				QC	CHECKED BY	DATE	
US-191; OVER COLORADO				DETAIL SHEET			
RIVER BRIDGE - MOAB, UTAH							
PROJECT NUMBER							
BRF-0191(58)129							
SHEET NO.				DT-05			

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\DETAILS\5365_07_DT-06.DGN

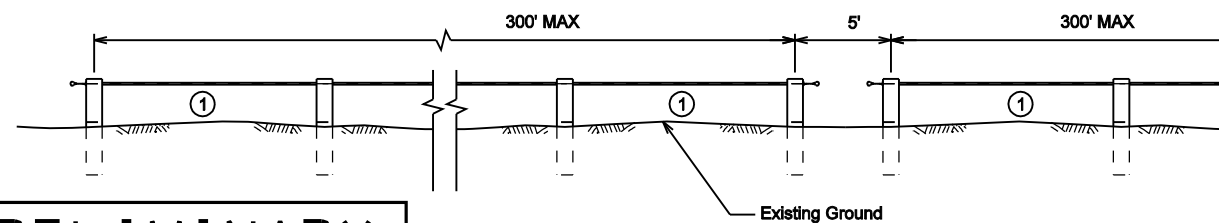
TRAFFIC CONTROL CABLE SHEET



ELEVATION VIEW

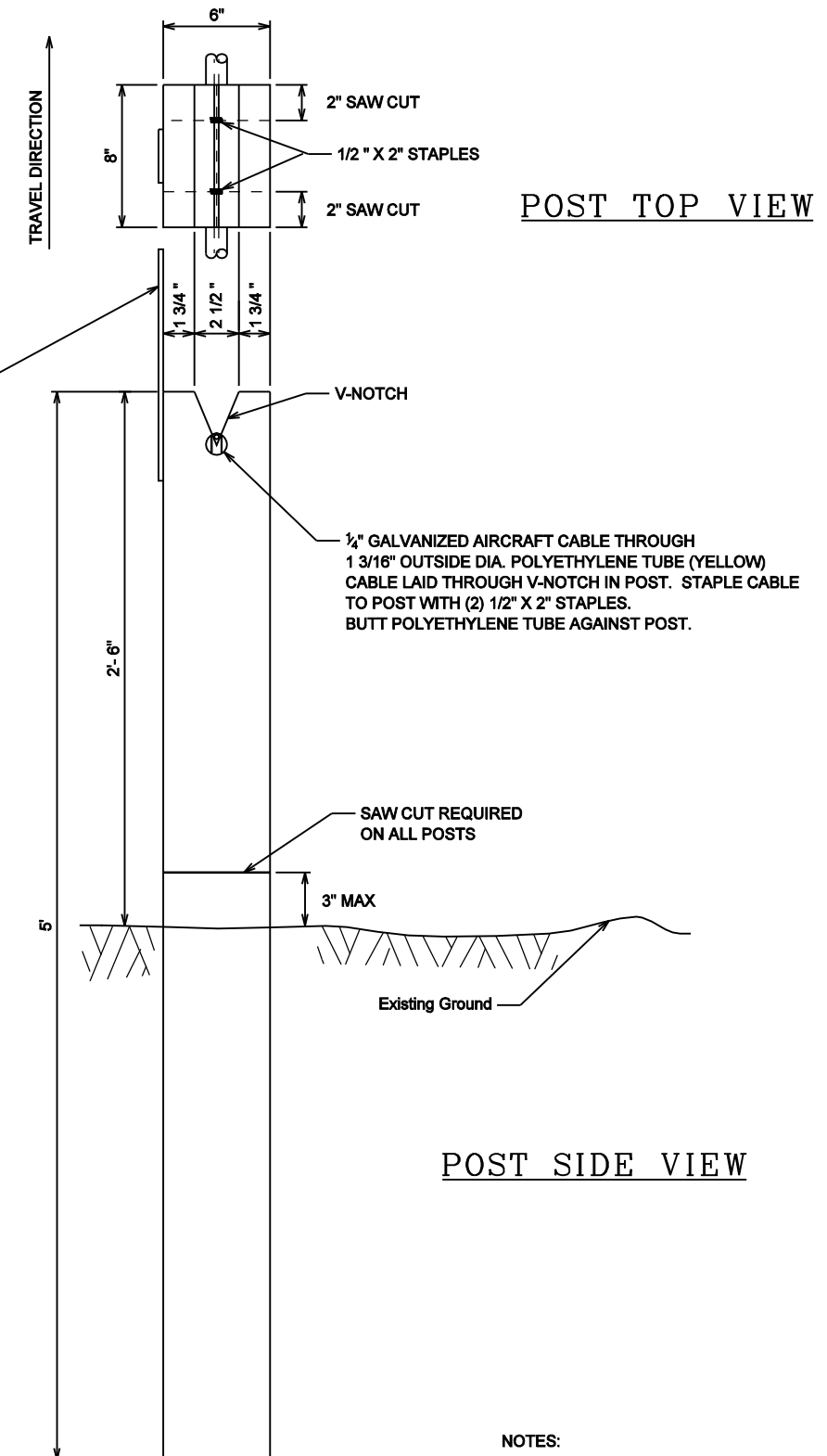


CABLE END DETAIL



PRELIMINARY
NOT FOR CONSTRUCTION

SECTION LENGTH DETAIL



NOTES:

- ① PROVIDE SUFFICIENT TENSION SO THAT THERE ARE NO SAGS GREATER THAN 3 INCHES.
2. SEE RD-02 FOR LOCATIONS.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN

DRAWN BY	XXX
QC CHECKED BY	XXX
DATE	
PROFESSIONAL ENGINEER	

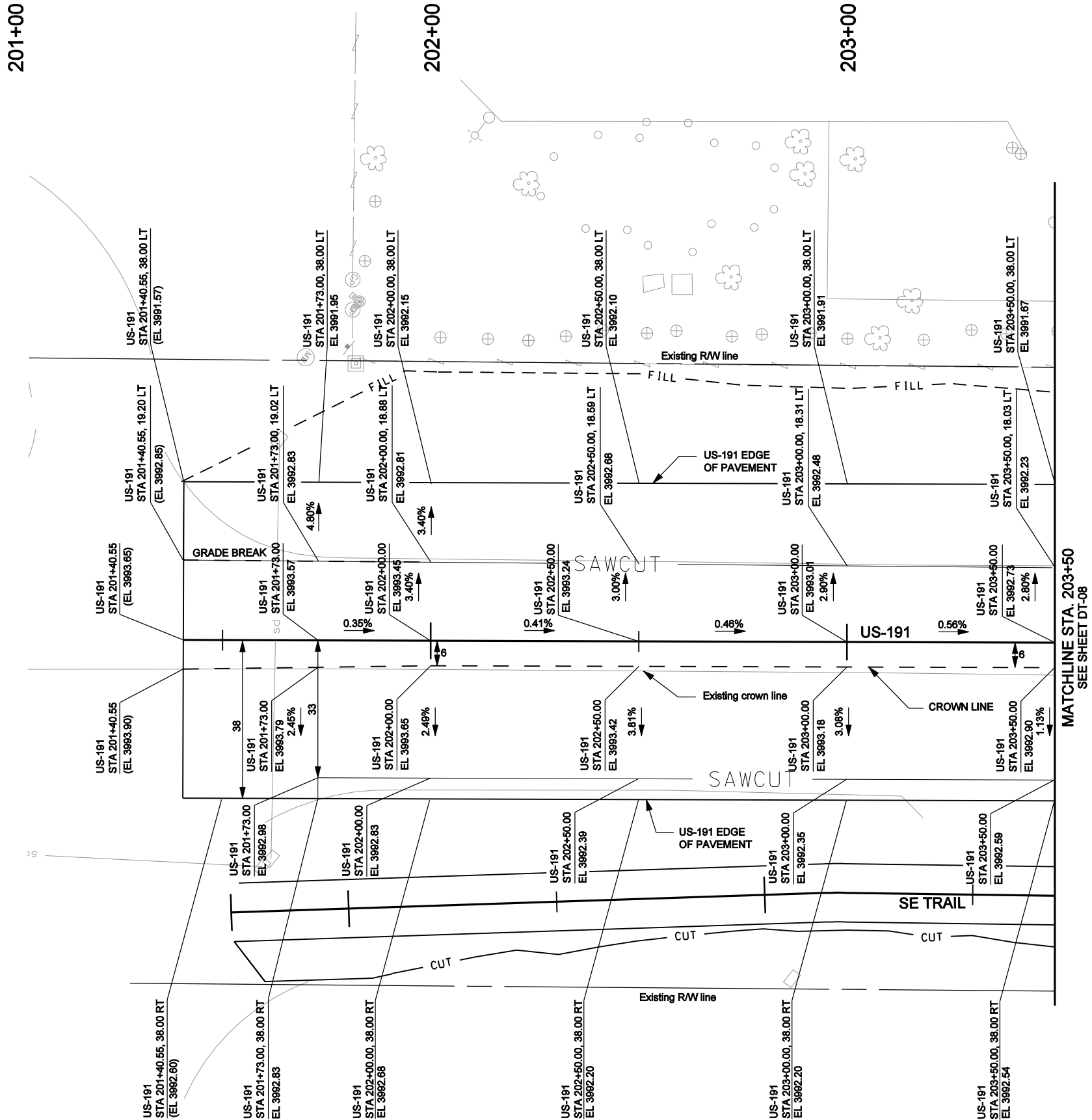
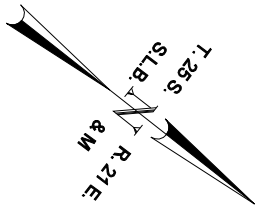
US-191; OVER COLORADO
RIVER BRIDGE - MOAB, UTAH

APPROVED

BRF-0191(58)129

DETAIL SHEET

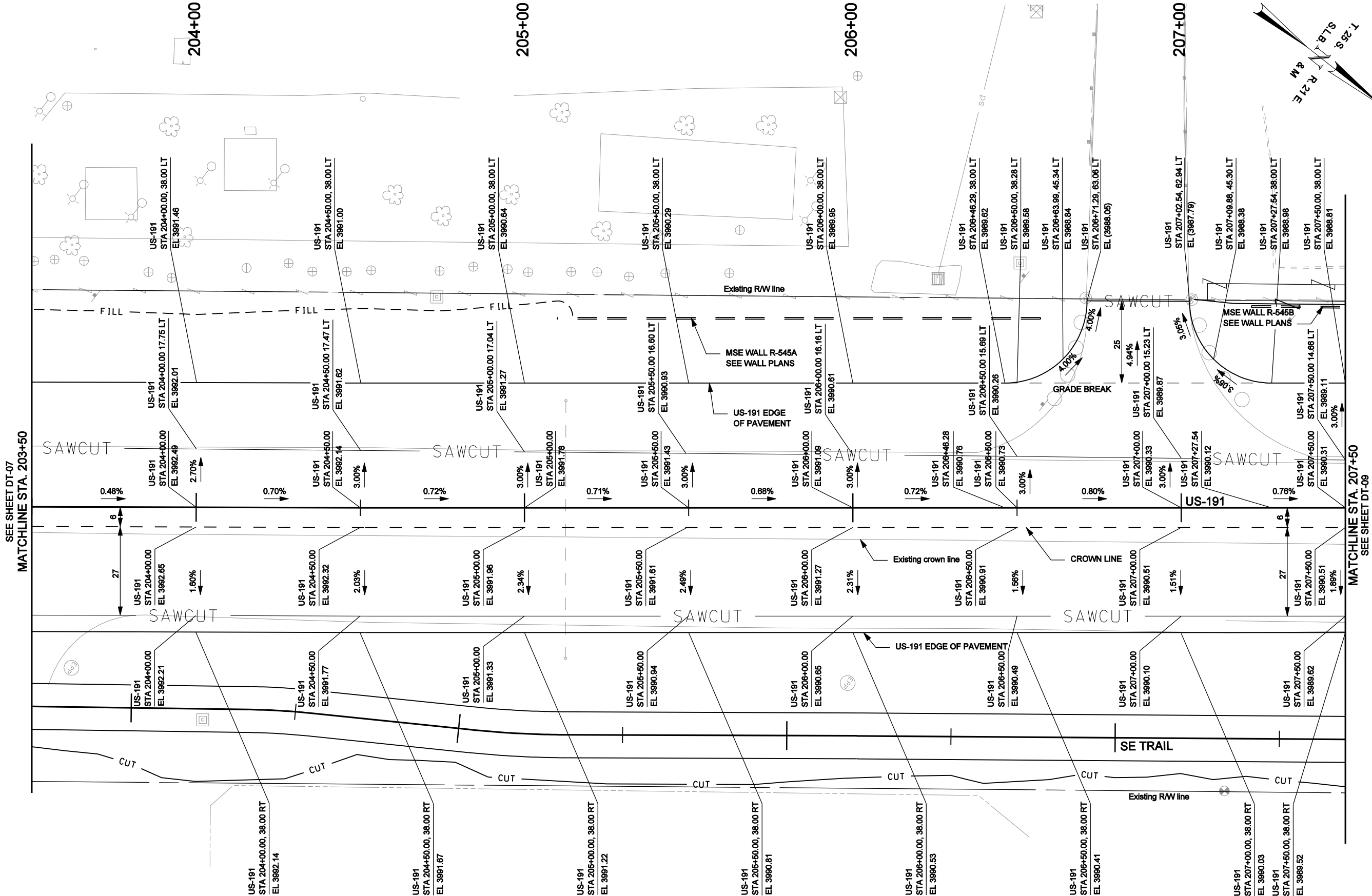
PRELIMINARY
NOT FOR CONSTRUCTION



LEGEND:
(XXXX.XX) MATCH EXISTING
FIELD VERIFY

SHEET NO.	US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN				REVISIONS				
	PROJECT	RIVER BRIDGE - MOAB, UTAH									
PROJECT NUMBER	BRF-0191(58)129		APPROVED	DRAWN BY							
	DETAIL SHEET			QC CHECKED BY							
DT-07			PROFESSIONAL ENGINEER	DATE				NO.	DATE	APPROVED BY	REMARKS

PRELIMINARY
NOT FOR CONSTRUCTION

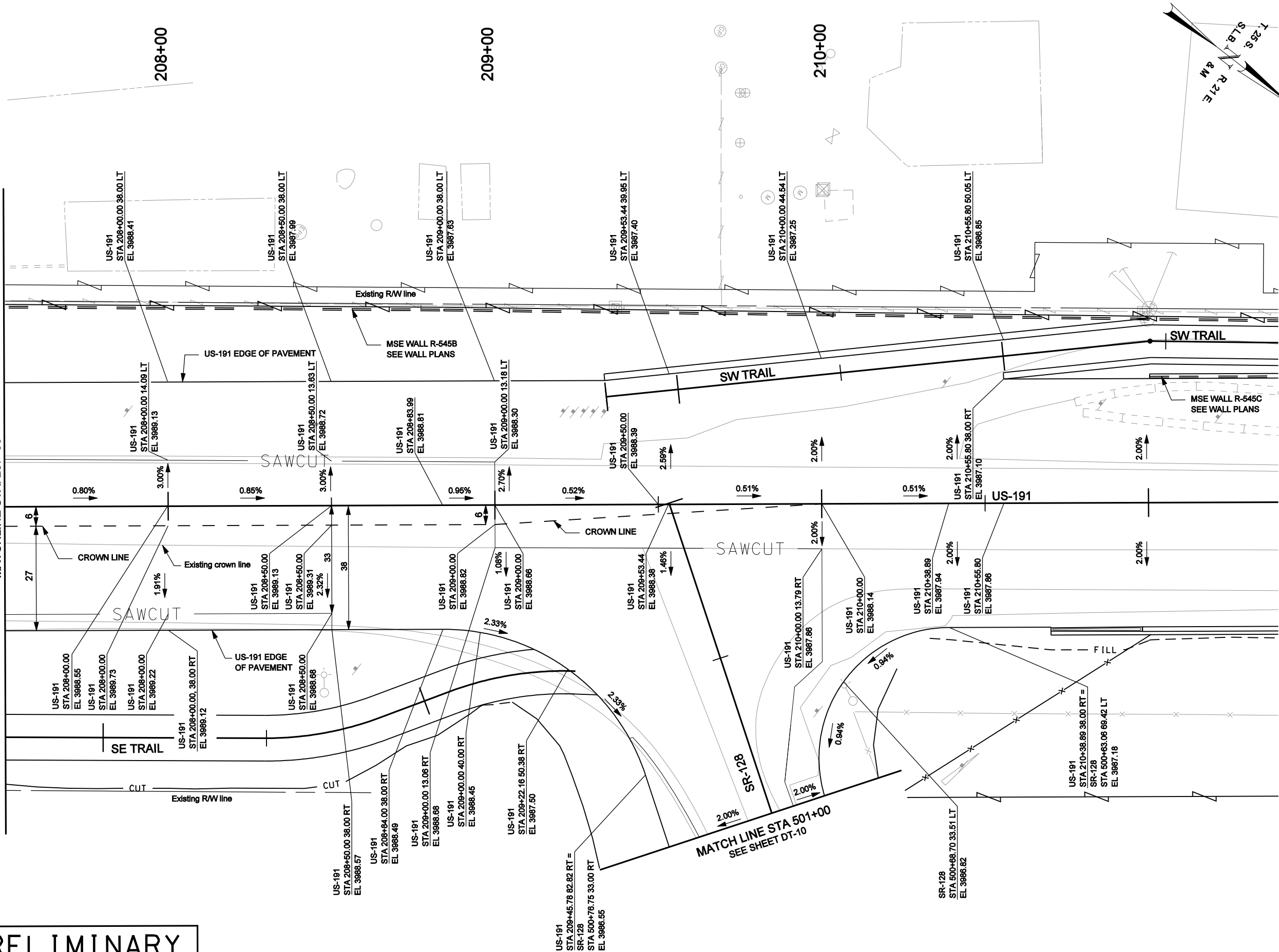


LEGEND:
(XXXX.XX) MATCH EXISTING
FIELD VERIFY

US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
PROJECT	RIVER BRIDGE - MOAB, UTAH	ROADWAY DESIGN							
PROJECT NUMBER	BRF-0191(58)129	APPROVED				DRAWN BY	QC	CHECKED BY	REMARKS
DETAIL SHEET		PROFESSIONAL ENGINEER							
SHEET NO.		DT-08				NO.	DATE	APPROVED BY	REMARKS

PRELIMINARY
NOT FOR CONSTRUCTION

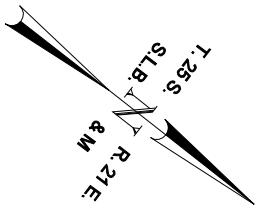
SEE SHEET DT-08
MATCHLINE STA. 207+50



LEGEND:
(XXX.XX) MATCH EXISTING
FIELD VERIFY

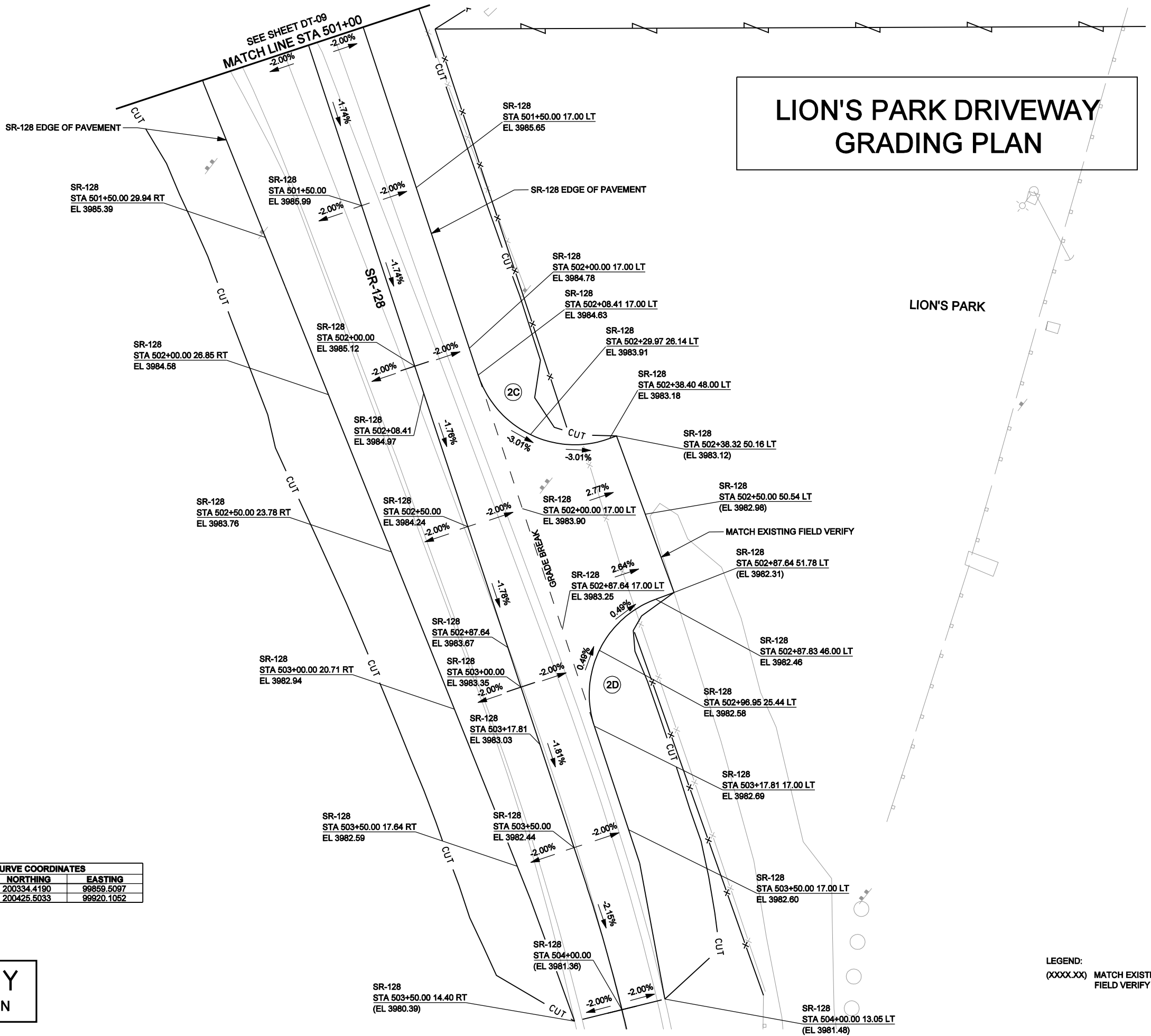
PROJECT		UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS	
US-191; OVER COLORADO		RIVER BRIDGE - MOAB, UTAH			
PROJECT NUMBER		APPROVED		DRAWN BY	
		BRF-0191(58)129		QC CHECKED BY	
		DETAIL SHEET		DATE	
		PROFESSIONAL ENGINEER		APPROVED BY	
				NO.	
				DATE	
				REMARKS	

\\FSSLC03\2507-SLC-COLORADO_BRIDGE\5365-07\SHEET_FILES\DETAILS\5365-07_DT-10.DGN



CURVE ID	R (EOP)	SR-128 CENTER OF CURVE COORDINATES			
		STATION	OFFSET	NORTHING	EASTING
2C	30.0'	502+08.41	47.00 LT	200334.4190	99859.5097
2D	30.0'	503+17.81	47.00 LT	200425.5033	99920.1052

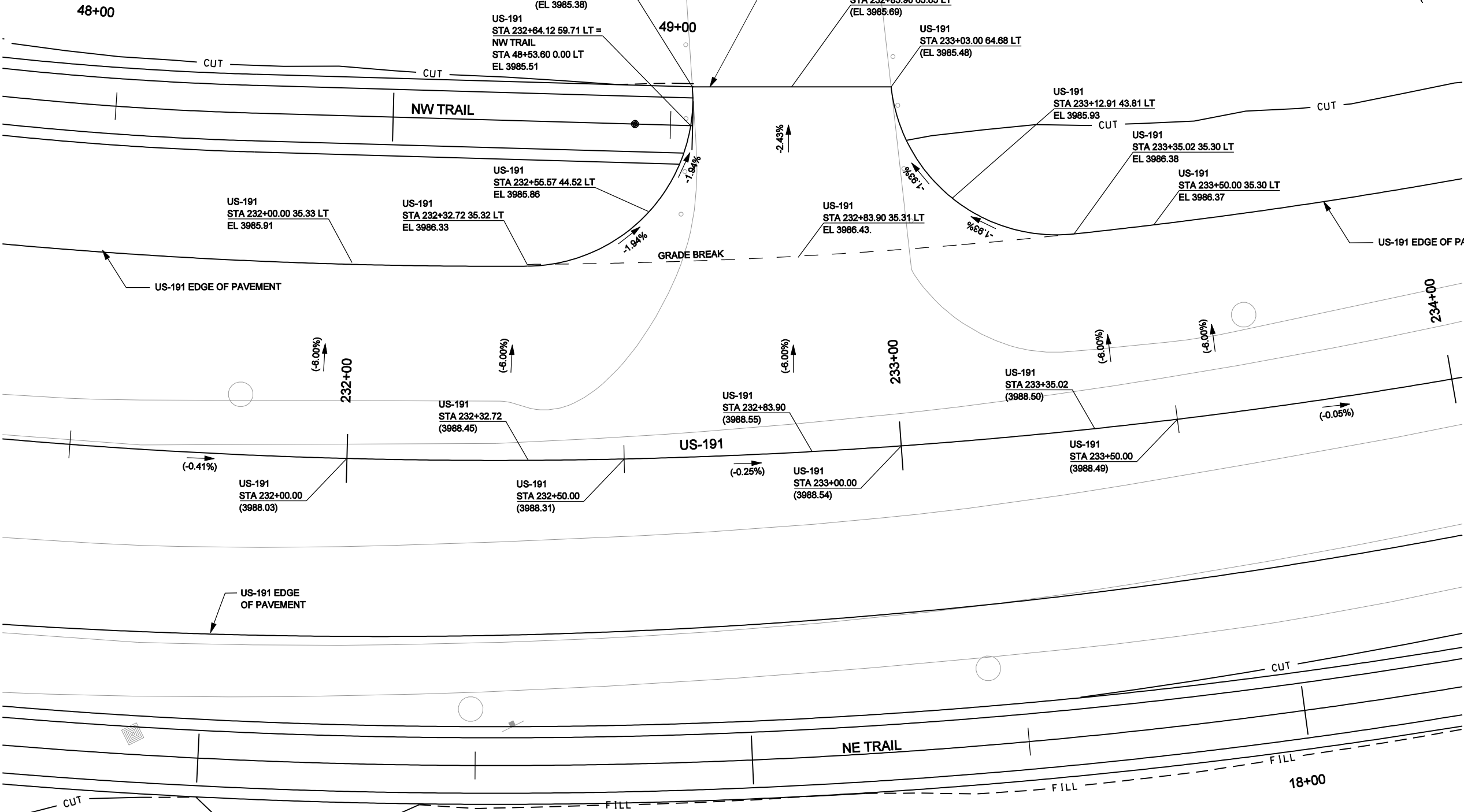
PRELIMINARY
NOT FOR CONSTRUCTION



LEGEND:
(XXXX.XX) MATCH EXISTING
FIELD VERIFY

[illegible]

DRIVEWAY GRADING PLAN

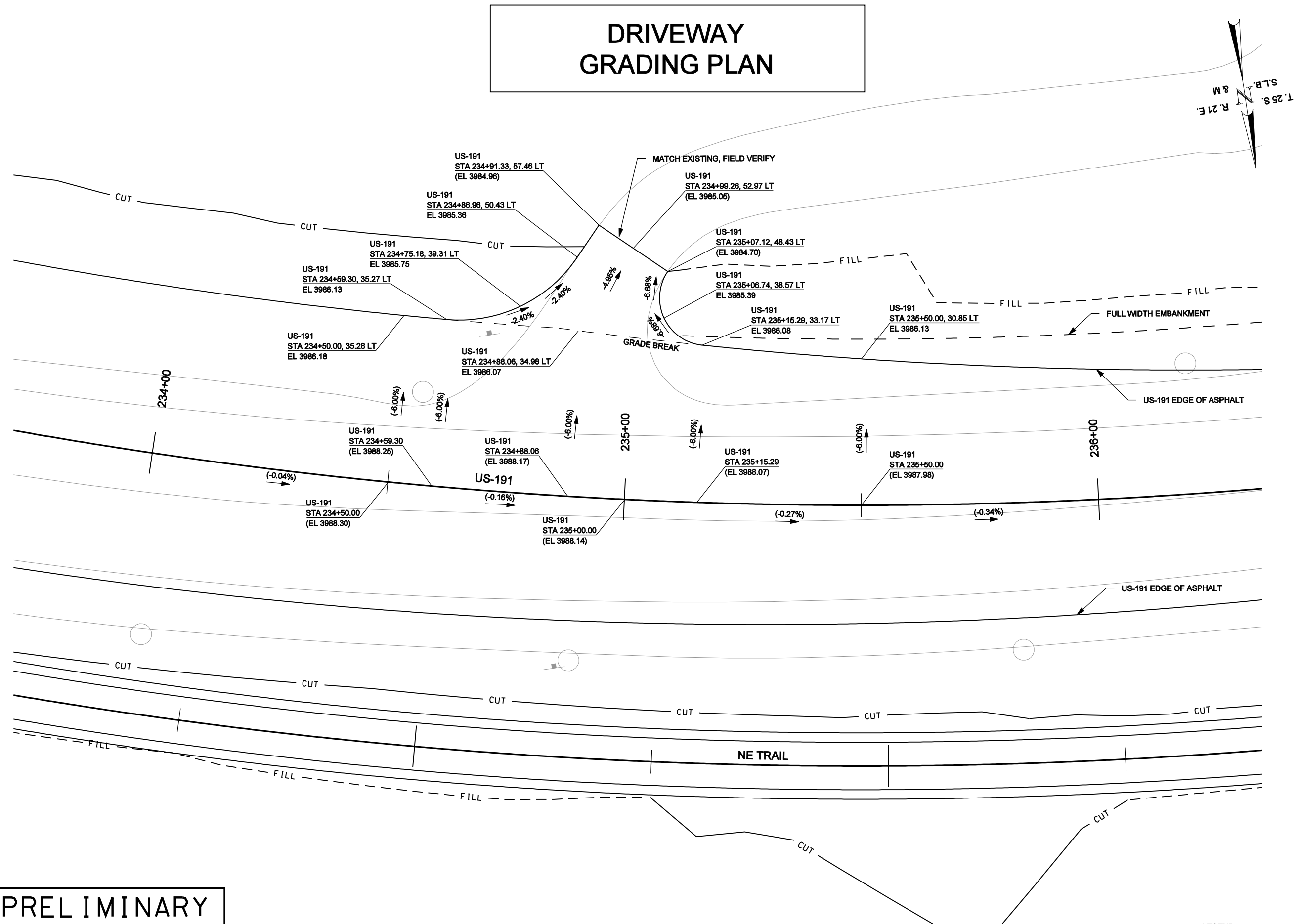


16+00
PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND:
(XXXX.XX) MATCH EXISTING
FIELD VERIFY

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\PROJECT_FILES\DETAILS\5365_07_DT-12.DGN

PRELIMINARY
NOT FOR CONSTRUCTION

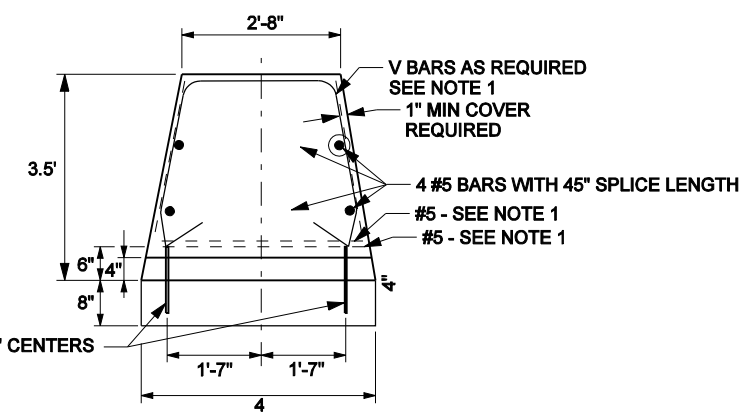
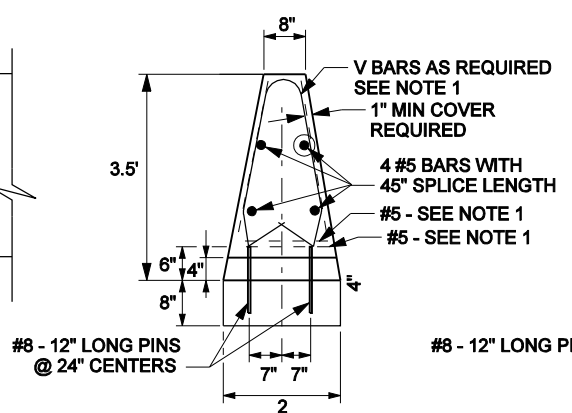
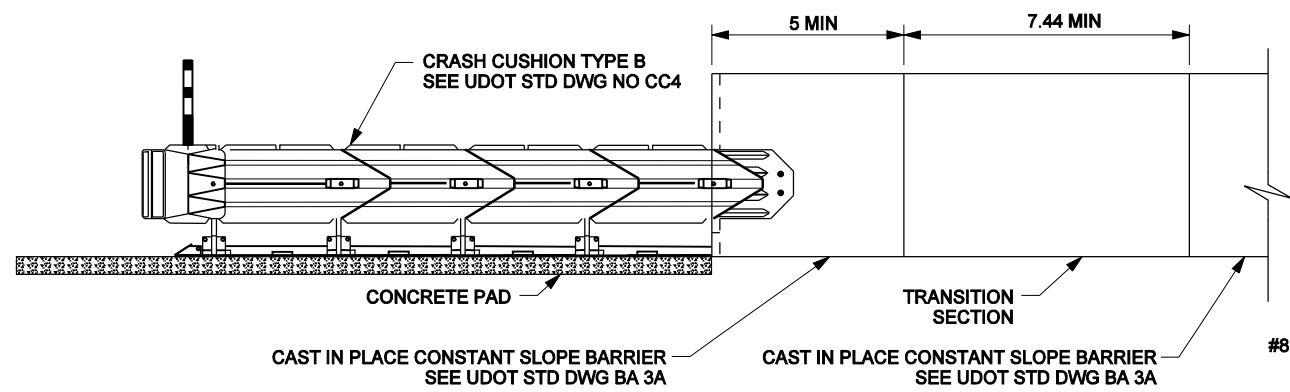
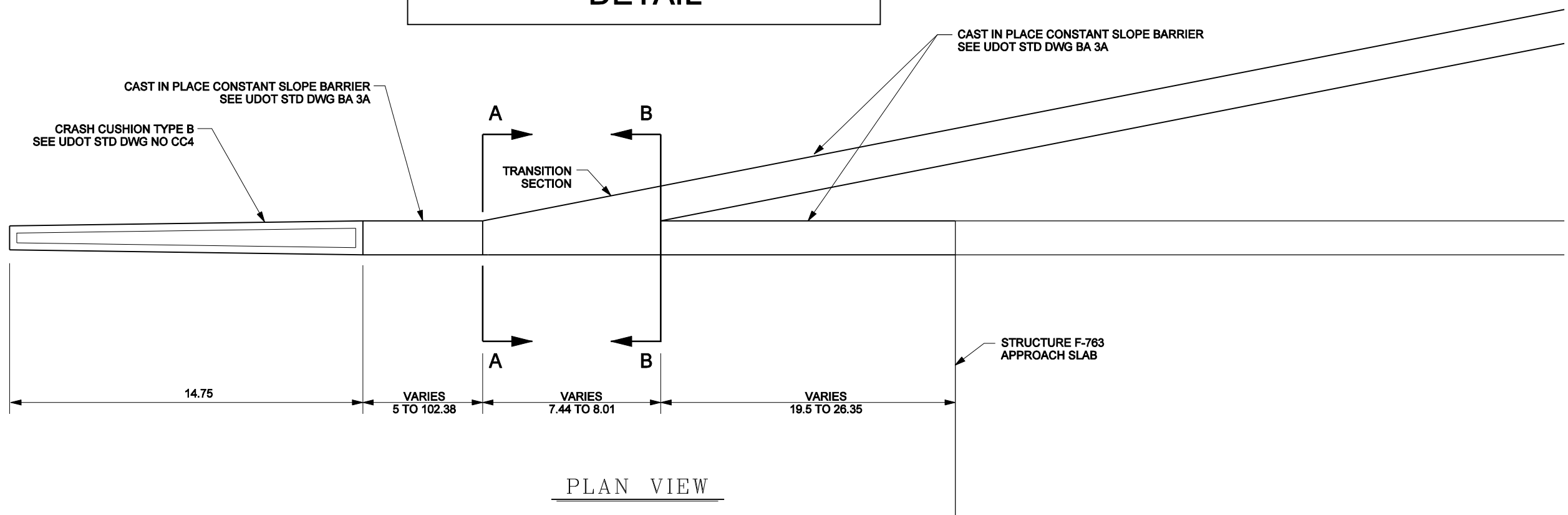


LEGEND:
(XXXX.XX) MATCH EXISTING
FIELD VERIFY

SHEET NO.		PROJECT	US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS				
			RIVER BRIDGE - MOAB, UTAH										
PROJECT NUMBER		BRF-0191(58)129		APPROVED		DRAWN BY		FJB					
DT-12		DETAIL SHEET		PROFESSIONAL ENGINEER		DATE		QC		CHECKED BY			
										NO.		DATE	
												APPROVED BY	
												REMARKS	

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07-SHEET_FILES\DETAILS\5365_07_DT-13.DGN

BARRIER TRANSITION DETAIL



- NOTES:
1. SEE UDOT STD DWG BA 3A2 FOR REINFORCING DETAILS AND REINFORCING STEEL TABLE

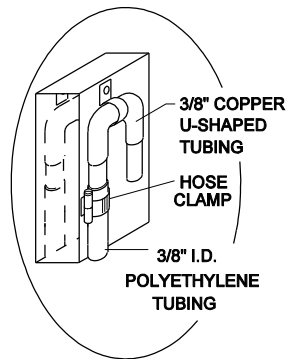
PRELIMINARY
NOT FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
ROADWAY DESIGN				NO.	DATE	APPROVED BY	REMARKS
APPROVED							
DRAWN BY							
QC CHECKED BY							
DATE							
PROFESSIONAL ENGINEER							
DETAIL SHEET							
US-191; OVER COLORADO							
RIVER BRIDGE - MOAB, UTAH							
BRF-0191(58)129							
SHEET NO.							
DT-13							

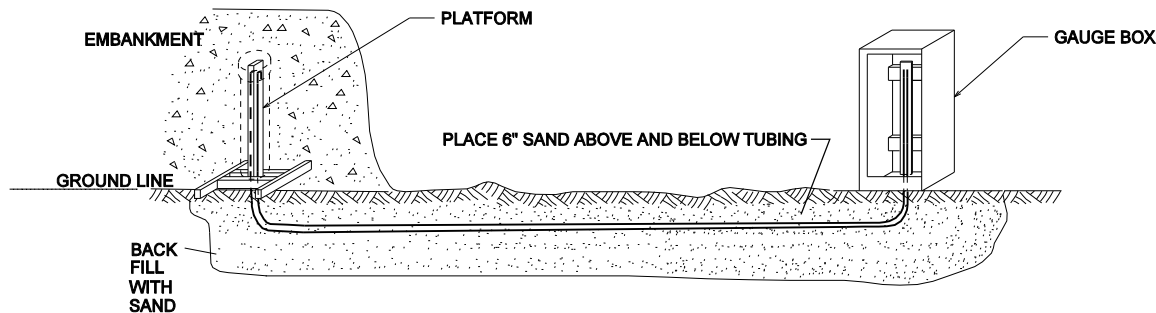
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PRELIMINARY
NOT FOR CONSTRUCTION

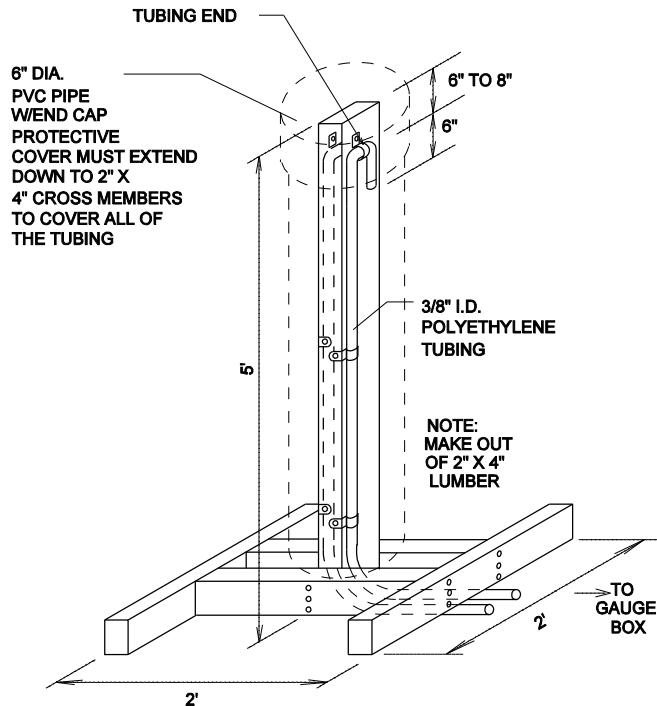
SETTLEMENT PLATFORM DETAIL



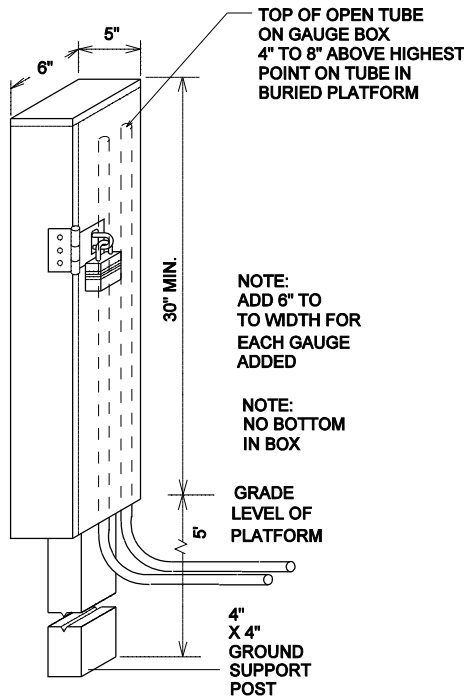
TUBING END
MOUNTING DETAIL
NTS



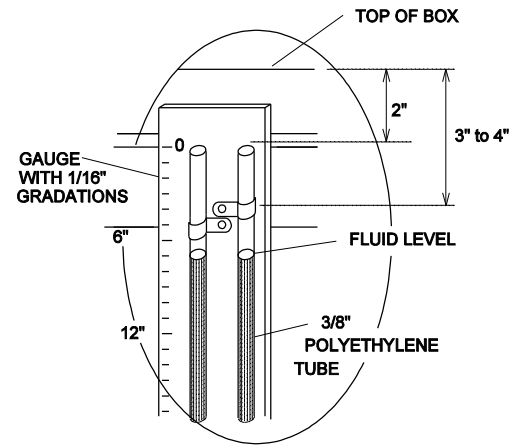
SETTLEMENT PLATFORM INSTALLATION DETAIL
NTS



PLATFORM DETAIL
NTS



GAUGE BOX DETAIL
NTS



GAUGE DETAIL
NTS

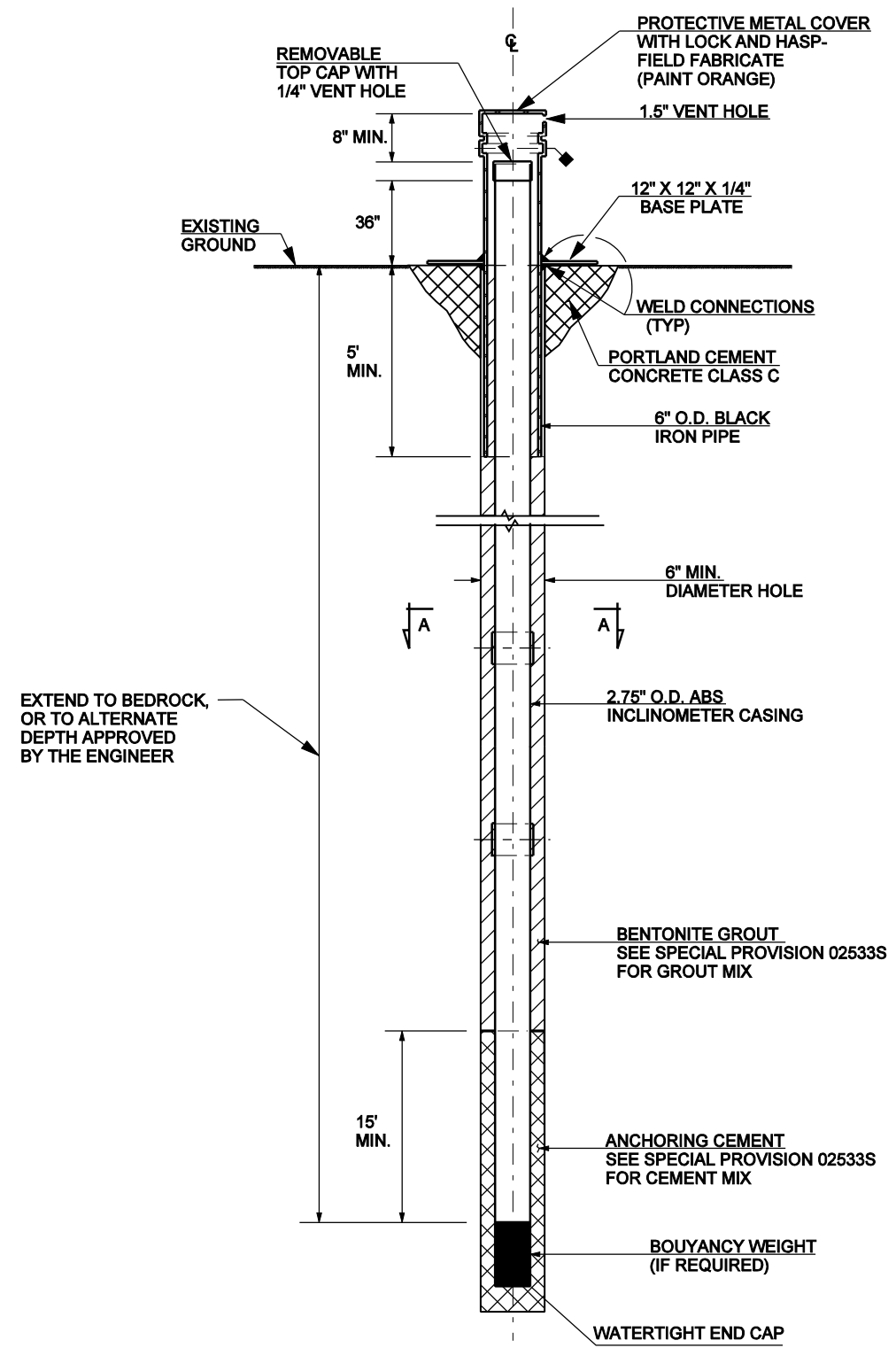
NOTE:

- 1 UNITS ARE IN FEET AND INCHES.
- 2 GAUGE BOXES TO BE CONSTRUCTED OF 16 GAUGE SHEET METAL WITH DOOR HINGED ADEQUATELY TO PREVENT WARPING. ALTERNATE HOUSING MUST BE APPROVED BY THE ENGINEER.
- 3 PROVIDE WEATHER-PROOF BOXES.
- 4 SETTLEMENT PLATFORM FLUID TO BE 50% WATER & 50% ANTIFREEZE.
- 5 PROVIDE A MINIMUM OF TWO TUBES PER PLATFORM AND GAGE BOX.
- 6 UDOT WILL MONITOR SETTLEMENT PLATFORMS.
- 7 LOCATE GAUGE BOX IN PROTECTED LOCATION WITH SUPPORT POST EMBEDDED FIRMLY IN GROUND.
- 8 PROVIDE WEEKLY SURVEY OF ELEVATION OF TOP OF GAUGE BOX AND ELEVATION OF FILL ABOVE PLATFORM TO THE ENGINEER.
- 9 SEE DETAIL SHEET DT-16 FOR INSTRUMENT LOCATIONS.
- 10 SEE SPECIAL PROVISION 02533S

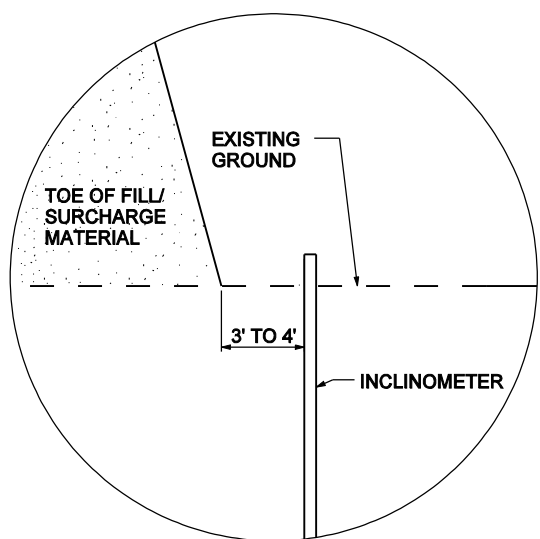
REVISIONS				UTAH DEPARTMENT OF TRANSPORTATION			
				ROADWAY DESIGN			
				APPROVED			
				PROJECT			
				PROJECT NUMBER			
				DETAIL SHEET			
				US-191; OVER COLORADO			
				RIVER BRIDGE - MOAB, UTAH			
				BRF-0191(58)129			
				DETAIL SHEET			
				PROFESSIONAL ENGINEER			
				DATE			
				QC CHECKED BY			
				SRJ			
				APPROVED BY			
				DATE			
				NO.			
				REMARKS			

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\DETAILS\5365_07_DT-15.DGN

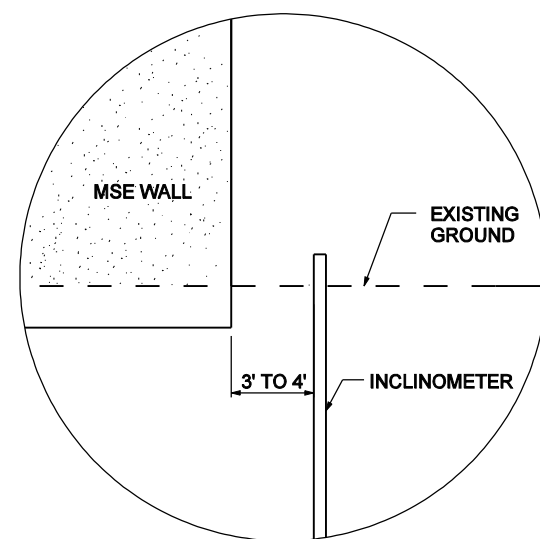
INCLINOMETER DETAIL



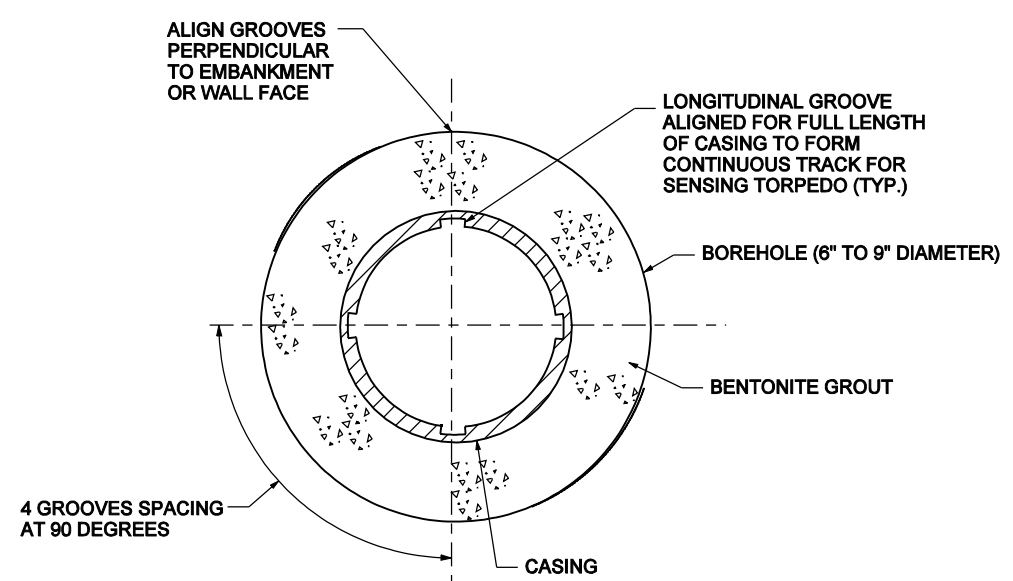
INCLINOMETER DETAIL
NOT TO SCALE



INCLINOMETER DETAIL A
NOT TO SCALE



INCLINOMETER DETAIL B
NOT TO SCALE



INCLINOMETER
SECTION A-A
NOT TO SCALE

- NOTE:
1. UNITS ARE IN FEET AND INCHES.
 2. EXTEND TOP OF INCLINOMETER CASING AND PROTECTIVE PIPE AS NEEDED TO MAINTAIN A HEIGHT OF 30" TO 48" ABOVE GROUND SURFACE. REPORT ANY SUCH EXTENSIONS TO THE ENGINEER.
 3. SEE DETAIL SHEET DT-16 FOR INSTRUMENT LOCATIONS.
 4. SEE SPECIAL PROVISION 02533S

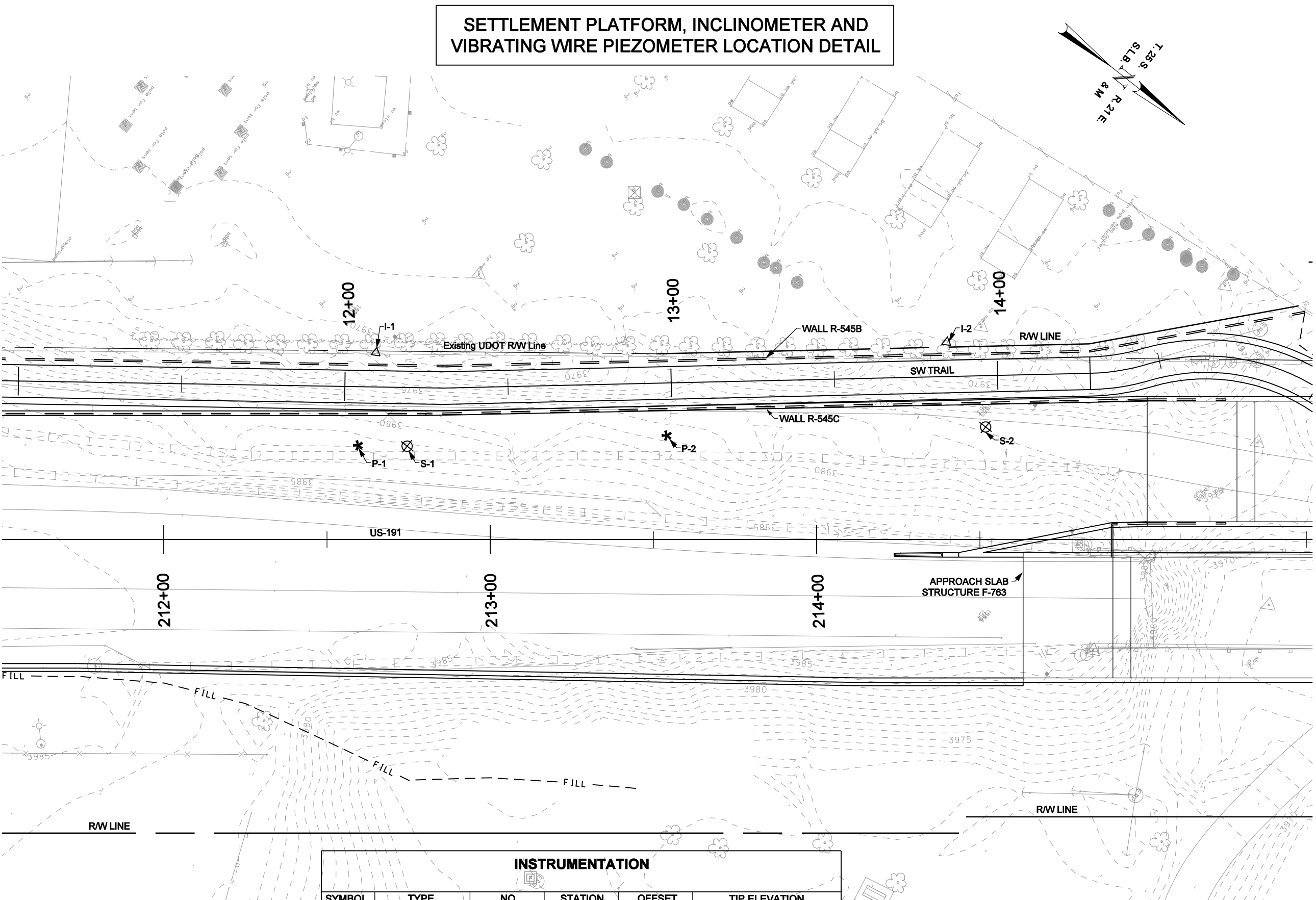
PRELIMINARY
NOT FOR CONSTRUCTION

UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
ROADWAY DESIGN							
APPROVED							
PROFESSIONAL ENGINEER							
DATE							
SRJ							
QC CHECKED BY							
DATE							
APPROVED BY							
NO.							
DATE							
REMARKS							

PROJECT	US-191; OVER COLORADO
PROJECT NUMBER	RIVER BRIDGE - MOAB, UTAH
	BRF-0191(58)129
	DETAIL SHEET

SHEET NO.	DT-15
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8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365-07\SHEET_FILES\DETAILS\5365-07_DT-16.DGN



PRELIMINARY
NOT FOR CONSTRUCTION

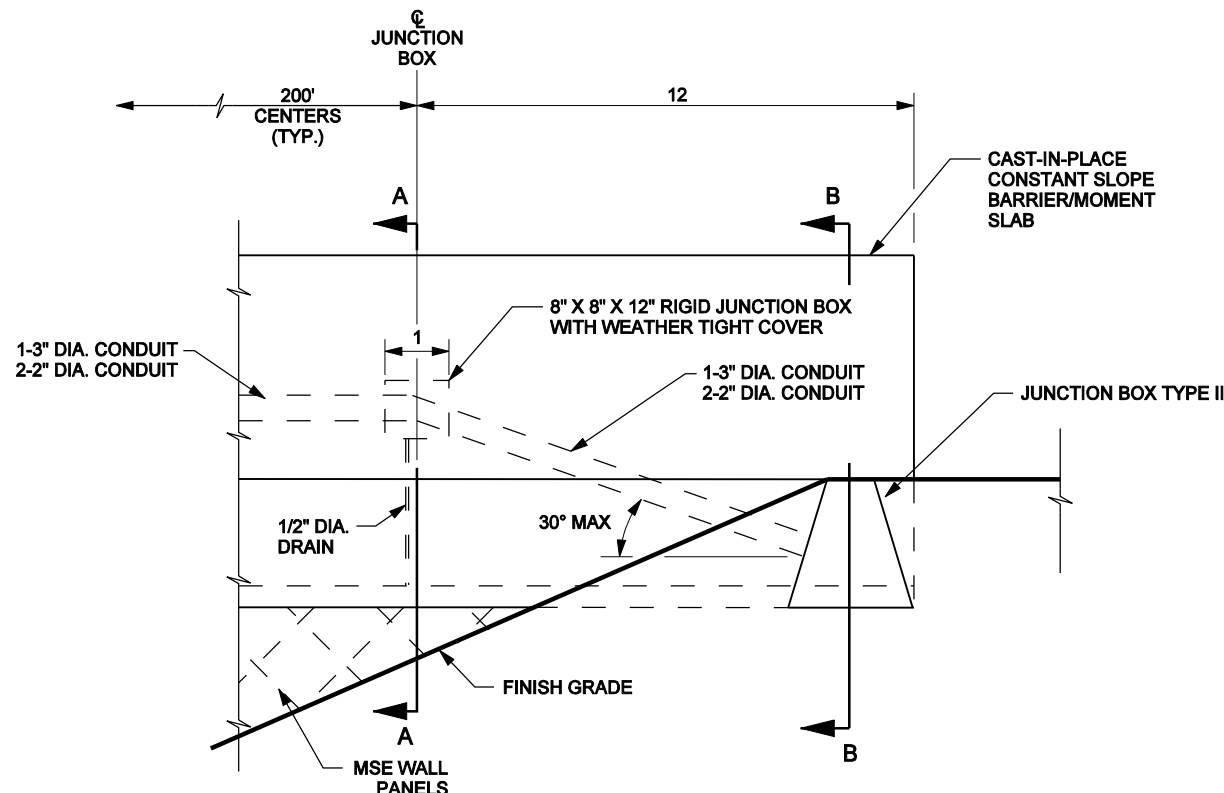
INSTRUMENTATION					
SYMBOL	TYPE	NO.	STATION	OFFSET	TIP ELEVATION
	SETTLEMENT PLATFORM	S-1	212+75.00	29 LT	N/A
		S-2	214+50.00	33 LT	N/A
	INCLINOMETER	I-1	212+65.00	57 LT	BEDROCK
		I-2	214+40.00	60 LT	BEDROCK
	VIBRATING WIRE PIEZOMETER	P-1	212+60.00	29 LT	3959'
		P-2	213+50.00	32 LT	3957'

NOTE:
1. SEE SPECIAL PROVISION 02533S

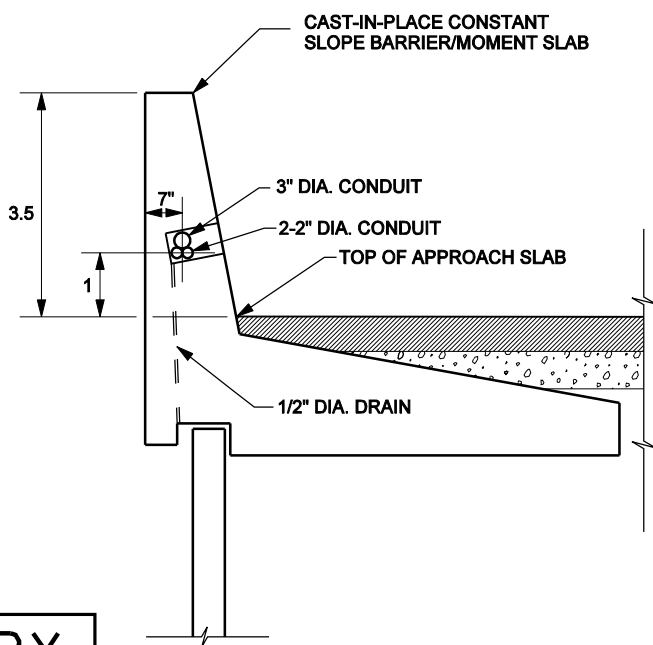
UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS	
ROADWAY DESIGN			
APPROVED		DRAWN BY	
PROJECT NUMBER		QC CHECKED BY	
DETAIL SHEET		DATE	
US-191; OVER COLORADO		PROFESSIONAL ENGINEER	
RIVER BRIDGE - MOAB, UTAH		DATE	
BRF-0191(58)129		APPROVED BY	
		NO.	
		DATE	
		REMARKS	
SHEET NO.		DT-16	

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\DETAILS\5365_07_DT-17.DGN

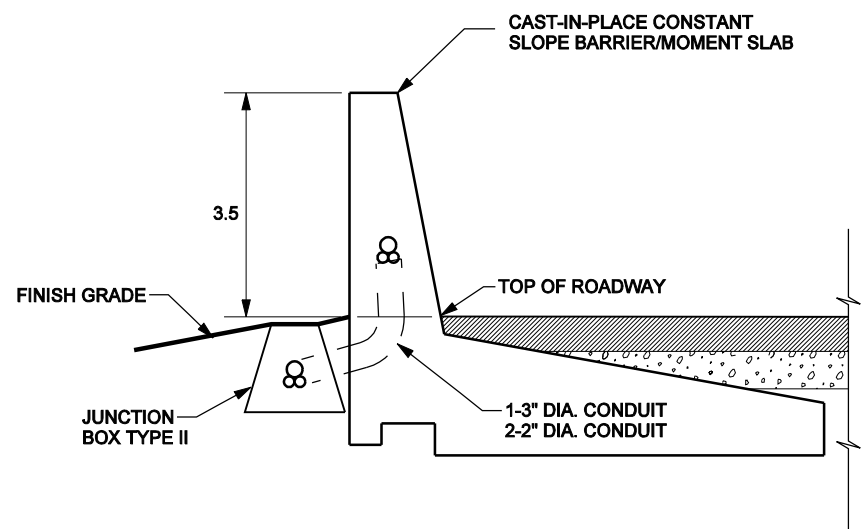
BARRIER/MOMENT SLAB CONDUIT TERMINATION DETAIL



JUNCTION BOX AT BARRIER TERMINUS DETAIL



SECTION A-A



SECTION B-B

PRELIMINARY
NOT FOR CONSTRUCTION

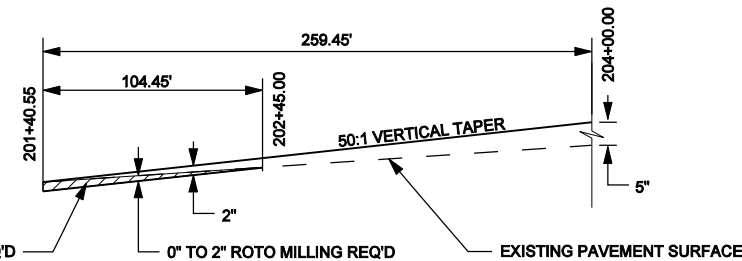
- NOTES:
1. USE SCHEDULE 40 PVC PIPE.
 2. TERMINATE PVC PIPE AT JUNCTION BOXES WITH DOUBLE LOCK NUTS.
 3. ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND UNDERWRITERS LABORATORIES INC. STANDARDS WHERE APPLICABLE.

UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
PROJECT		APPROVED		NO.		DATE	
RIVER BRIDGE - MOAB, UTAH		DRAWN BY		APPROVED BY		REMARKS	
BRF-0191(58)129		QC CHECKED BY					
DETAIL SHEET		PROFESSIONAL ENGINEER					
US-191; OVER COLORADO		ROADWAY DESIGN					
SHEET NO.		DT-17					

8/4/2008



PRELIMINARY
NOT FOR CONSTRUCTION



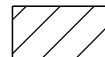
US-191 ASPHALT TIE-IN DETAIL

ROTO MILLING - 2 INCH REQ'D
BEGIN US-191 STA 201+40.55 TO
END US-191 STA 202+40.55 (315 SQ. YDS.)

REMOVE BOLLARD REQ'D

US-191 STA 206+61.39 33.33 LT
US-191 STA 206+65.43 40.53 LT
US-191 STA 206+67.92 48.77 LT
US-191 STA 206+69.55 56.40 LT
US-191 STA 207+05.48 55.68 LT
US-191 STA 207+08.51 47.27 LT
US-191 STA 207+12.79 39.35 LT
US-191 STA 207+18.51 32.99 LT

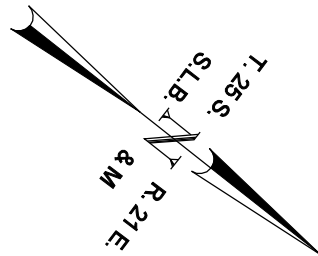
LEGEND:



ROTO MILLING - 2 INCH REQ'D

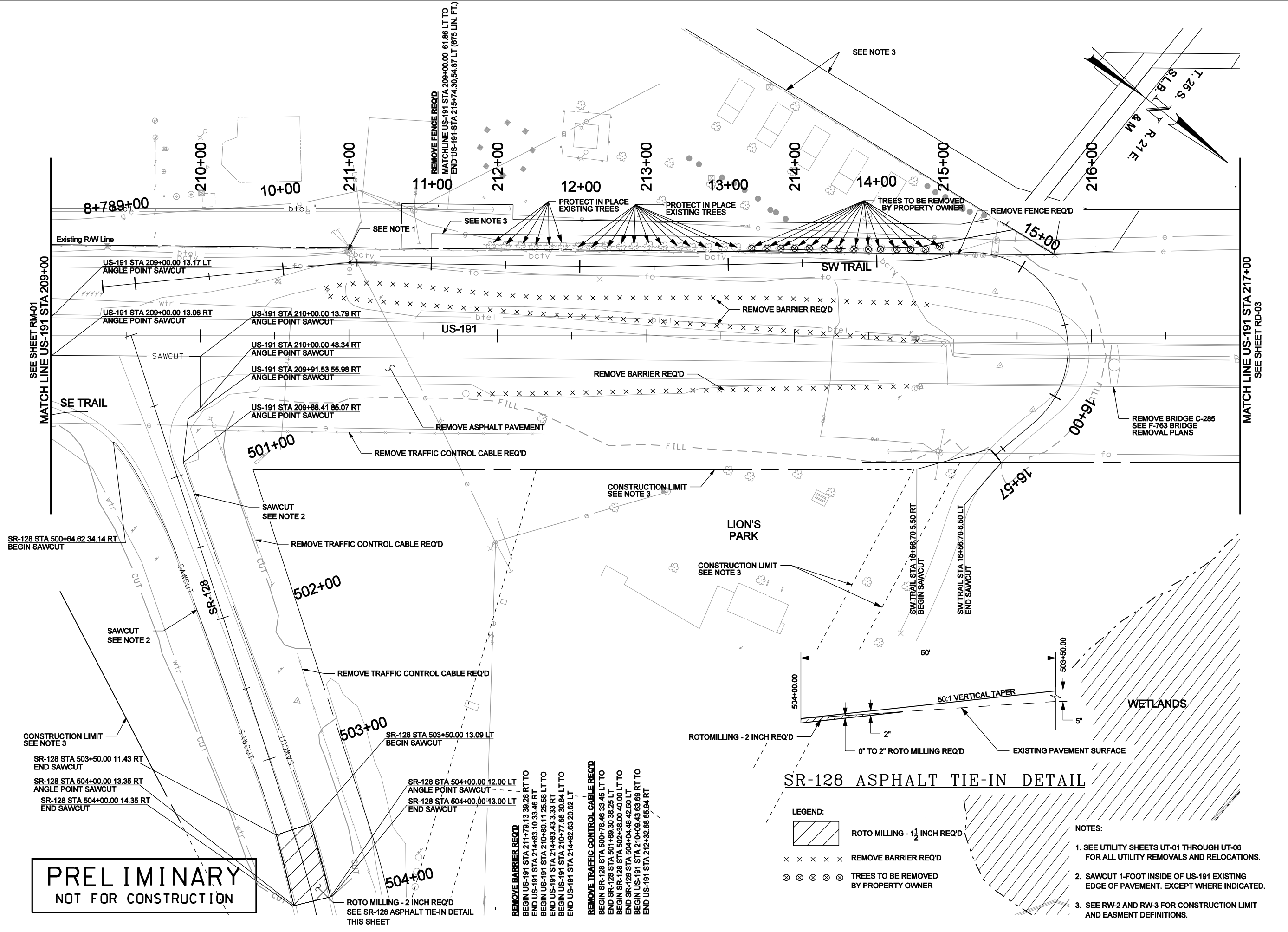
NOTE:

1. SEE UTILITY SHEETS UT-01 THROUGH UT-06
FOR ALL UTILITY REMOVALS AND RELOCATIONS.
2. SAWCUT 1-FOOT INSIDE OF US-191 EXISTING
EDGE OF PAVEMENT. EXCEPT WHERE INDICATED



SHEET NO. <div>RM-01</div>		US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN										REVISIONS			
PROJECT		RIVER BRIDGE - MOAB, UTAH															
PROJECT NUMBER		BRF-0191(58)129		APPROVED		DRAWN BY											
REMOVAL PLAN SHEET								QC		CHECKED BY							
				PROFESSIONAL ENGINEER				DATE				NO.		DATE		APPROVED BY	
																REMARKS	

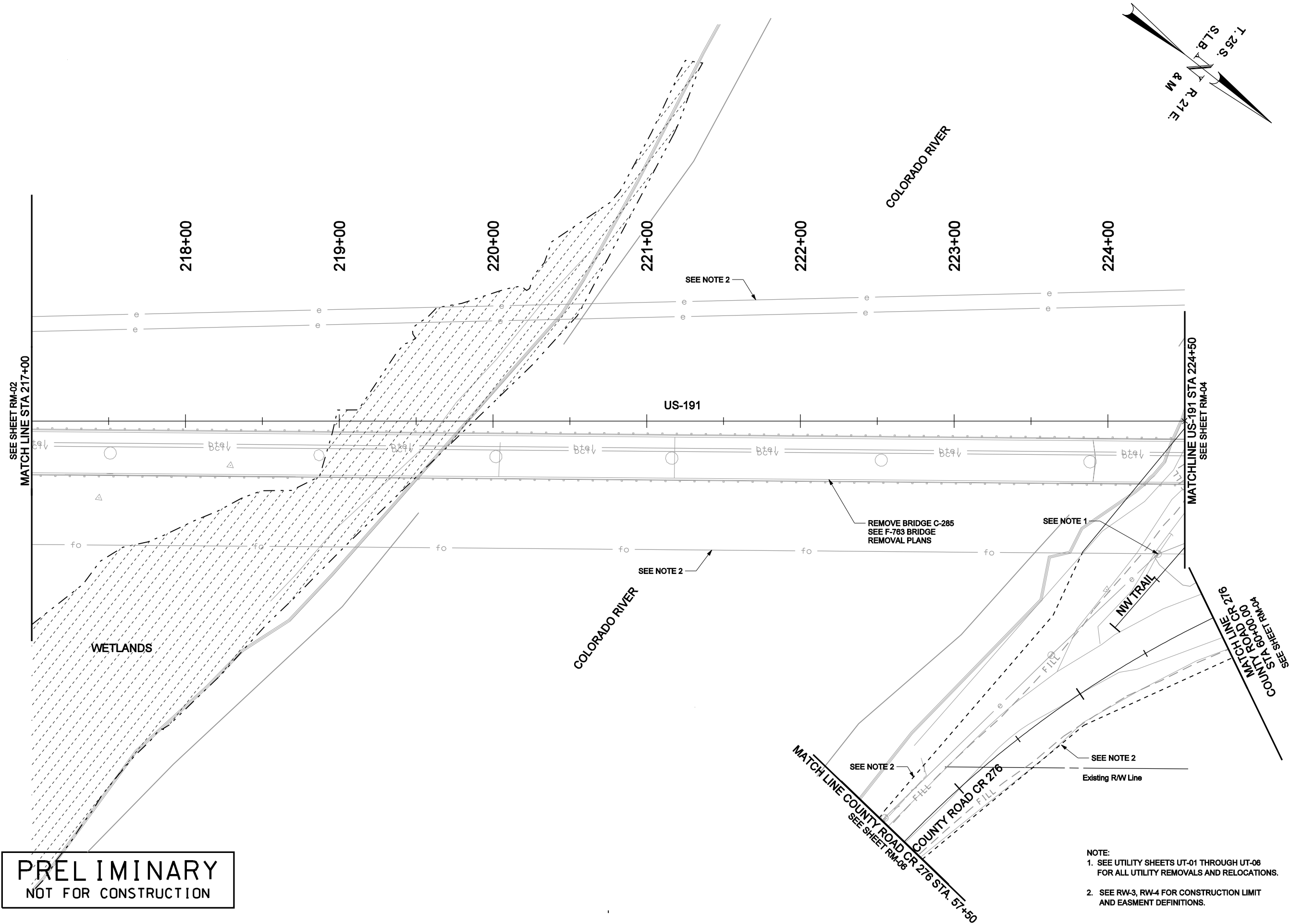
8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\REMOVALS\5365_07_RM-02.DGN



UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
ROADWAY DESIGN		APPROVED		DRAWN BY		QC CHECKED BY	
US-191; OVER COLORADO		RIVER BRIDGE - MOAB, UTAH		BRF-0191(58)129		REMOVAL PLAN SHEET	
PROJECT	PROJECT NUMBER	PROFESSIONAL ENGINEER		DATE	APPROVED BY	NO.	REMARKS
SHEET NO.		RM-02					

8/4/2008

PRELIMINARY
NOT FOR CONSTRUCTION



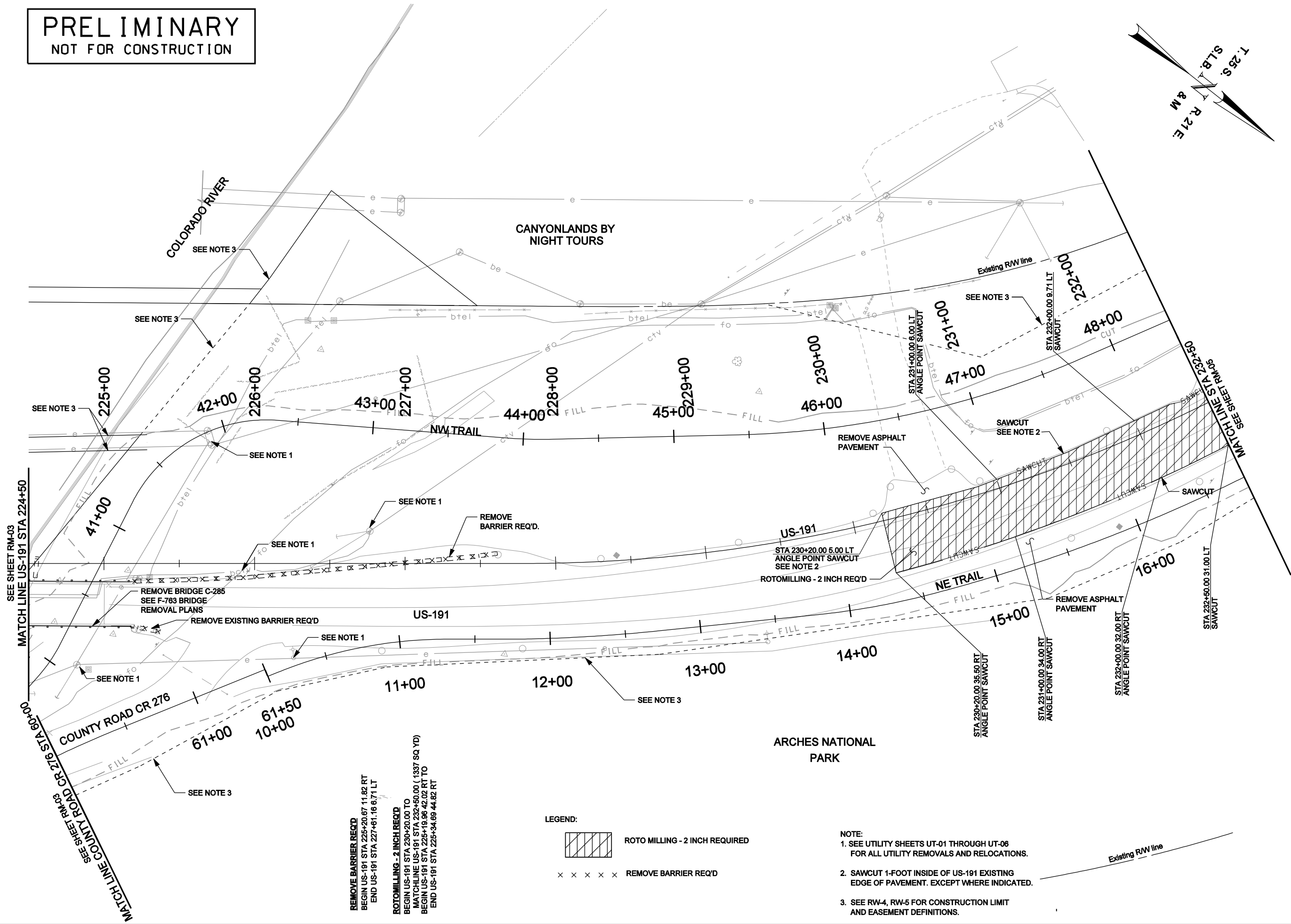
NOTE:

- 1. SEE UTILITY SHEETS UT-01 THROUGH UT-06
FOR ALL UTILITY REMOVALS AND RELOCATIONS.**
- 2. SEE RW-3, RW-4 FOR CONSTRUCTION LIMIT
AND EASMENT DEFINITIONS.**

[illegible]

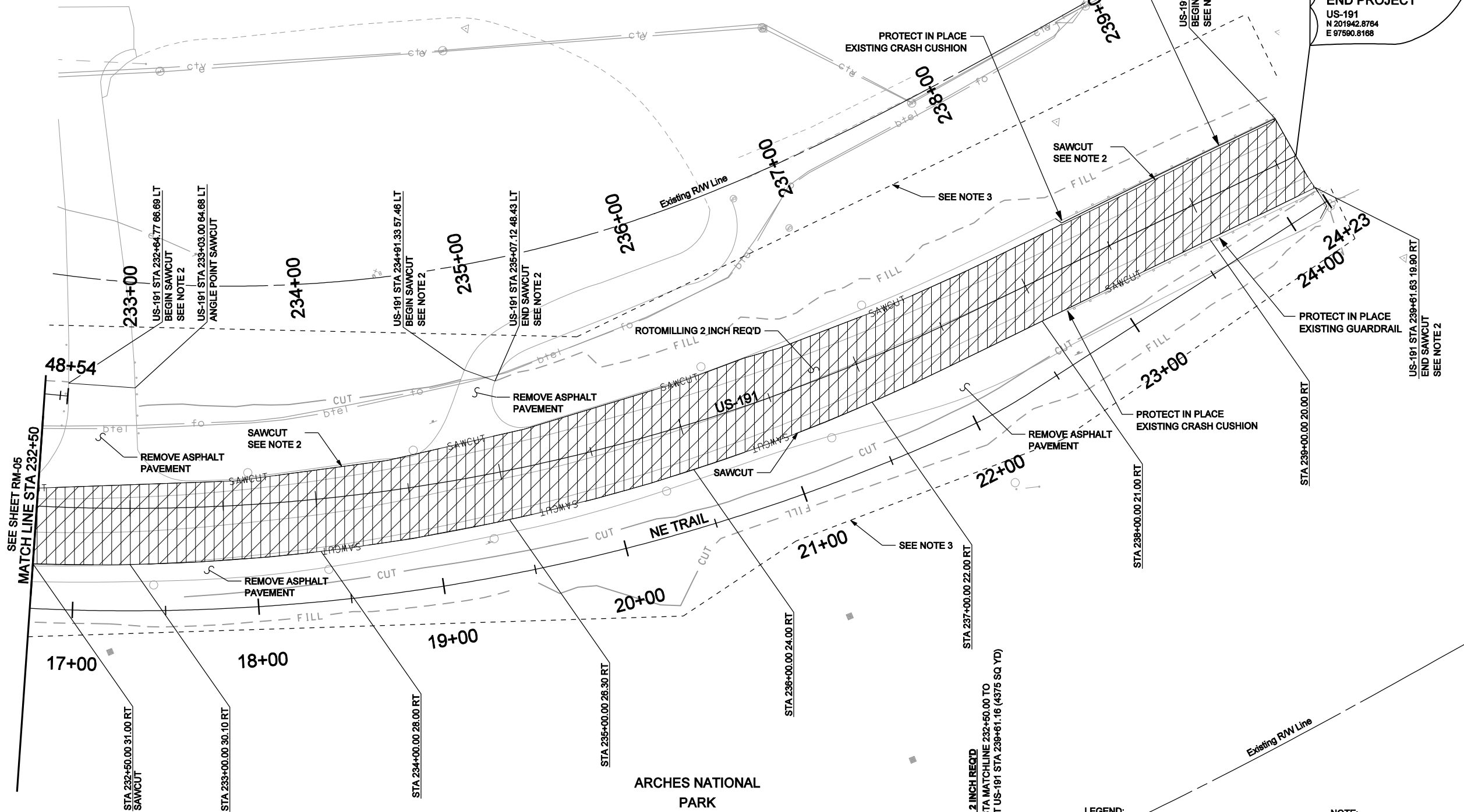
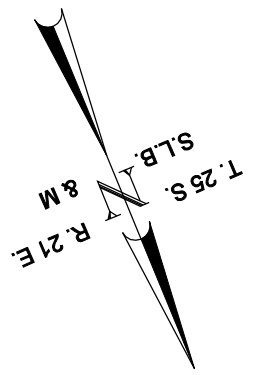
8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365-07-SHEET_FILES\REMOVALS\5365_07_RM-04.DGN

PRELIMINARY
NOT FOR CONSTRUCTION



SHEET NO.		PROJECT		UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS				
RM-04		US-191; OVER COLORADO		ROADWAY DESIGN								
		RIVER BRIDGE - MOAB, UTAH										
PROJECT NUMBER		BRF-0191(58)129		APPROVED		DRAWN BY						
REMOVAL PLAN SHEET						QC CHECKED BY						
				PROFESSIONAL ENGINEER		DATE			NO.	DATE	APPROVED BY	
												REMARKS

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\REMOVALS\5365_07_RM-05.DGN



PRELIMINARY
NOT FOR CONSTRUCTION

ROTOMILLING - 2 INCH REQ'D
BEGIN US-191 STA MATCHLINE 232+50.00 TO
END PROJECT US-191 STA 239+61.16 (4375 SQ YD)

LEGEND:

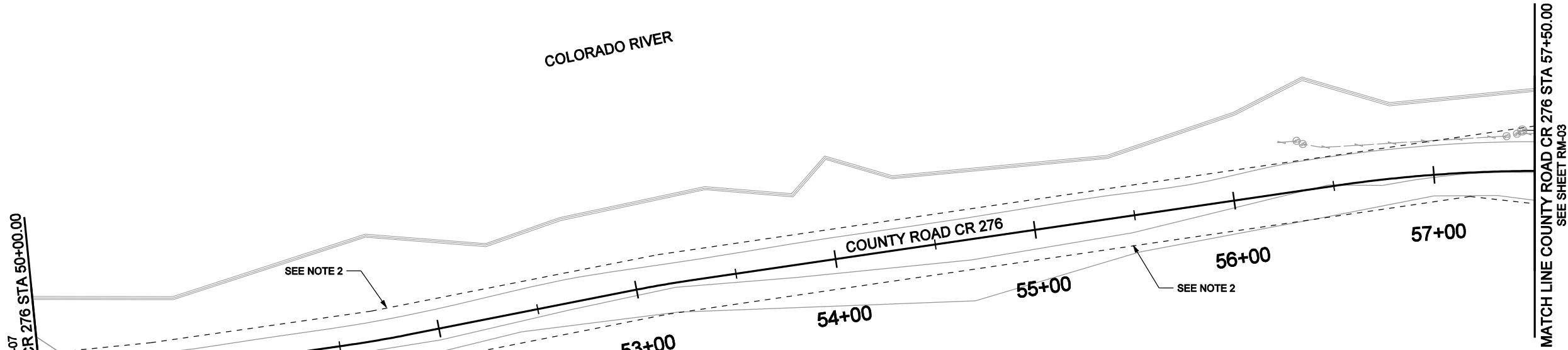
	ROTO MILLING - 2 INCH REQUIRED
	REMOVE BARRIER REQ'D

- NOTE:
- SEE UTILITY SHEETS UT-01 THROUGH UT-08 FOR ALL UTILITY REMOVALS AND RELOCATIONS.
 - SAWCUT 1-FOOT INSIDE OF US-191 EXISTING EDGE OF PAVEMENT. EXCEPT WHERE INDICATED.
 - SEE RW-5, RW-6 FOR CONSTRUCTION LIMIT AND EASMENT DEFINITIONS.

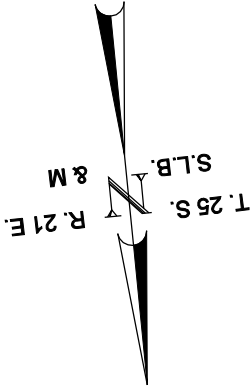
UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS	
PROJECT	US-191; OVER COLORADO		
	RIVER BRIDGE - MOAB, UTAH		
PROJECT NUMBER	BRF-0191(58)129		
	REMOVAL PLAN SHEET		
APPROVED		DRAWN BY	
		QC CHECKED BY	
		DATE	
		PROFESSIONAL ENGINEER	
		DATE	
		APPROVED BY	
		NO.	
		DATE	
		REMARKS	
SHEET NO.		RM-05	

PRELIMINARY
NOT FOR CONSTRUCTION

SEE SHEET RM-07
MATCH LINE COUNTY ROAD CR 276 STA 50+00.00



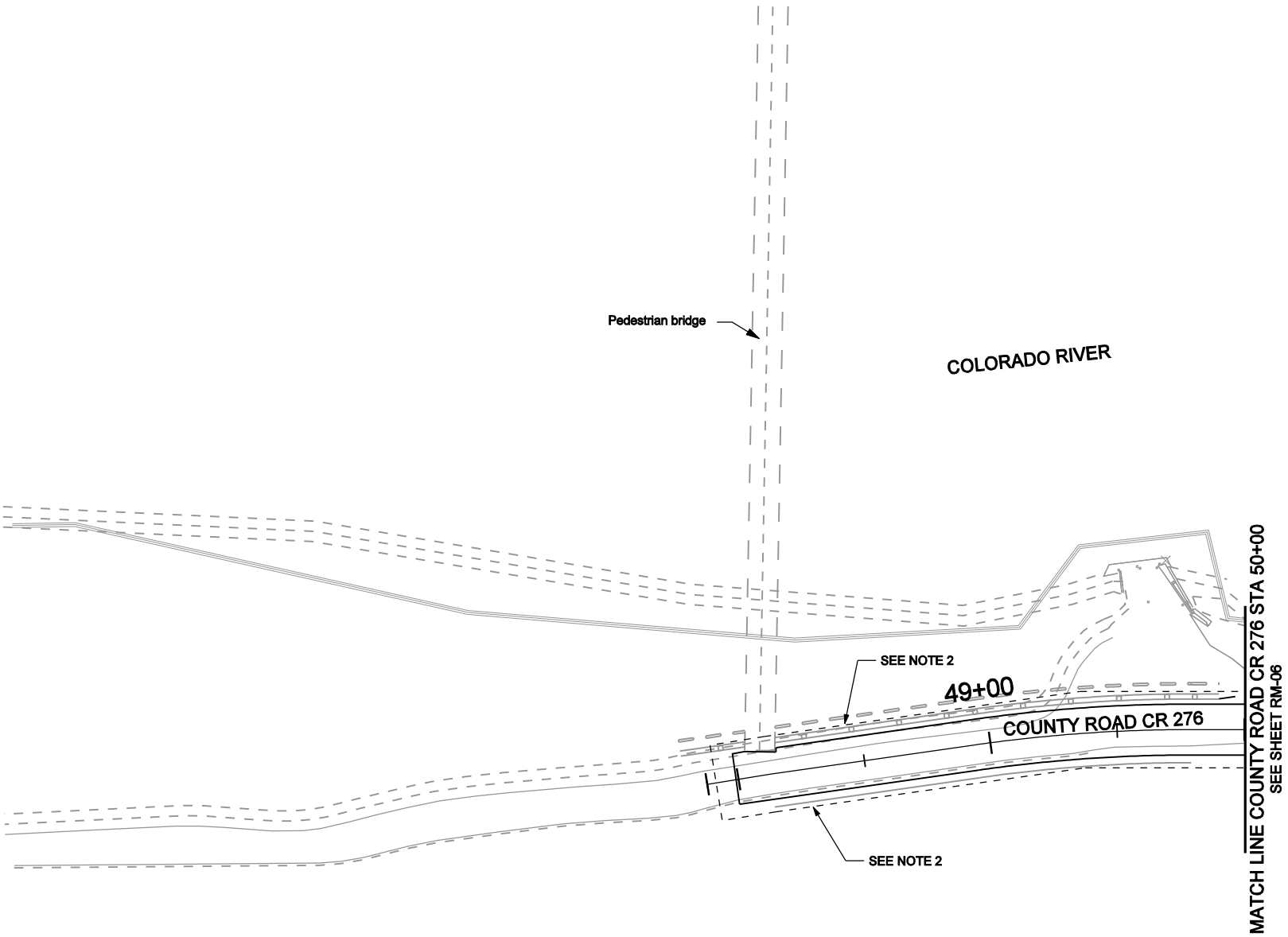
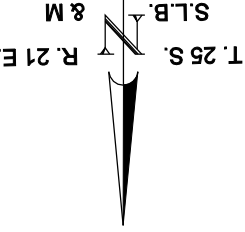
- NOTE:
- SEE UTILITY SHEETS UT-01 THROUGH UT-06
FOR ALL UTILITY REMOVALS AND RELOCATIONS.
 - SEE RW-8 FOR CONSTRUCTION LIMIT
AND EASMENT DEFINITIONS.



SHEET NO. RM-06		PROJECT	US-191; OVER COLORADO	UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN				REVISIONS			
		PROJECT NUMBER	RIVER BRIDGE - MOAB, UTAH								
			BRF-0191(58)129	APPROVED	DRAWN BY						
			REMOVAL PLAN SHEET		QC CHECKED BY						
					PROFESSIONAL ENGINEER	DATE				APPROVED BY	REMARKS
										NO.	DATE
			</								

8/4/2008

PRELIMINARY
NOT FOR CONSTRUCTION

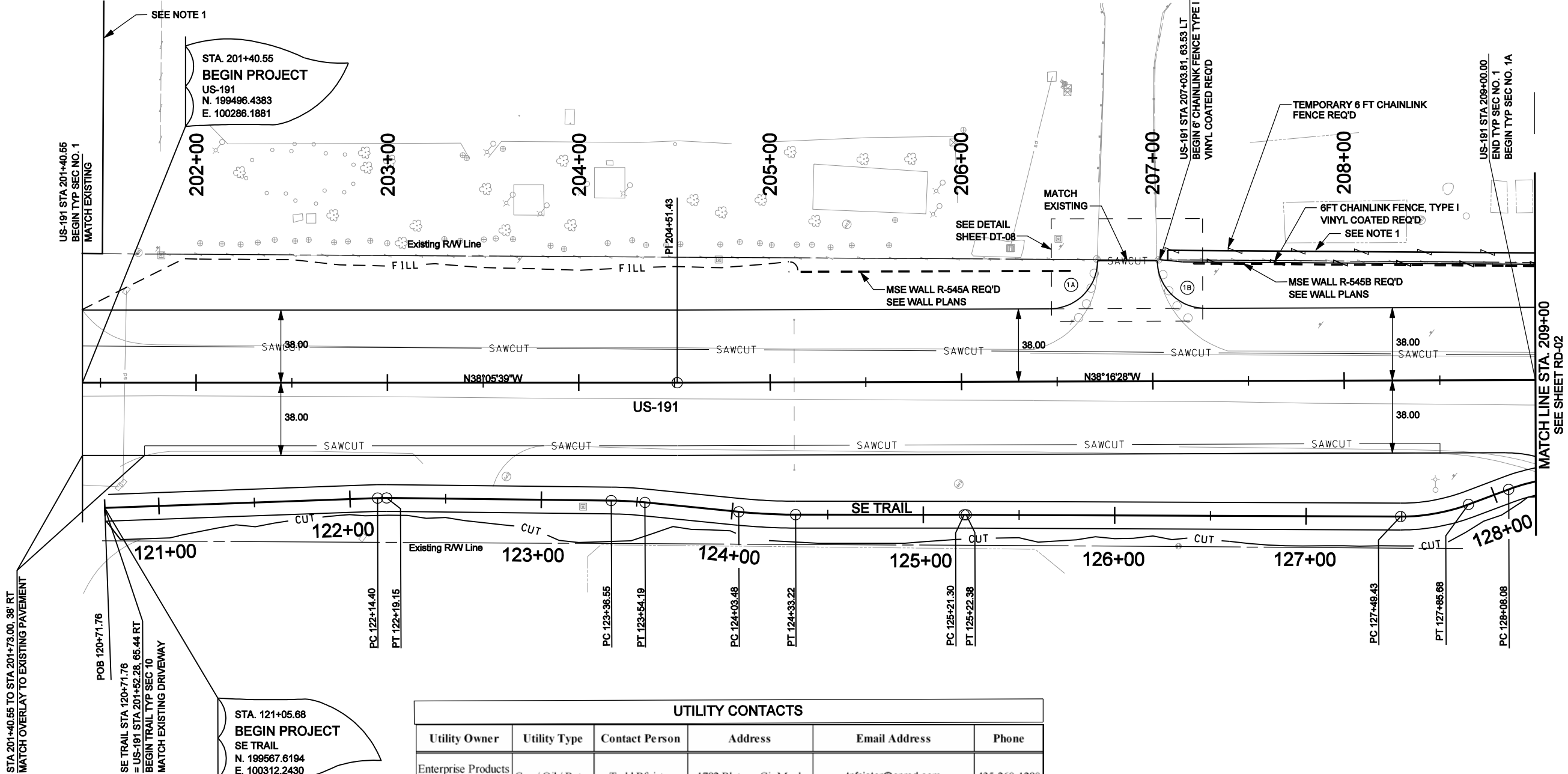


NOTE:

- 1. SEE UTILITY SHEETS UT-01 THROUGH UT-06
FOR ALL UTILITY REMOVALS AND RELOCATIONS**
- 2. SEE RW-8 FOR CONSTRUCTION LIMIT
AND EASEMENT DEFINITIONS.**

SHEET NO.	PROJECT	US-191; OVER COLORADO	<div>UTAH DEPARTMENT OF TRANSPORTATION</div> <div>ROADWAY DESIGN</div>				REVISIONS			
	PROJECT NUMBER	RIVER BRIDGE - MOAB, UTAH					<div>APPROVED</div> <div> <div>DRAWN BY</div> <div>QC</div> <div>CHECKED BY</div> </div>			
RM-07	REMOVAL PLAN SHEET		<div>PROFESSIONAL ENGINEER</div> <div>DATE</div>		<div>APPROVED BY</div> <div>DATE</div>		<div>REVISIONS</div>			

8/4/2008 \\FSS\03\2507-SLC-COLORADO-07\DESIGN\5365-07\ROADWAY-DESIGN\5365-07_RD-01.DGN



CURVE ID	R (EOP)	CENTER OF CURVE COORDINATES			
		STATION	OFFSET	NORTHING	EASTING
1A	25.0'	206+46.29	63.0 LT	199855.0533	99924.2265
1B	25.0'	207+27.54	63.0 LT	199918.8341	99973.9020

- NOTES:
- SEE RW-1 AND RW-2 FOR CONSTRUCTION LIMITS AND NO ACCESS AREAS.
 - SEE DT-07, 08, AND 09 FOR PAVEMENT GRADING DETAIL.

PRELIMINARY
NOT FOR CONSTRUCTION

UTILITY CONTACTS					
Utility Owner	Utility Type	Contact Person	Address	Email Address	Phone
Enterprise Products Operating	Gas / Oil / Petro	Todd Pfinster	1782 Plateau Cir Moab	tpfinster@eprod.com	435-260-1280
Frontier Communications	FOC / Telephone	Kim J. Healey/Bill Hull	400 West 100 North, Tremonton, UT 74337	bhull@czn.com	435-257-8125
Moab City	SD / SWR / WTR	Brent Williams	217 East Center St Moab	brent@moabcity.org	435-259-7485
Northwest Pipeline	Gas / Oil / Petro	Scott Patterson	PO box 58900 SLC	scott.c.patterson@williams.com	801-550-5047
Preciscom Cablevision	CATV	Shane Baggs	1750 South Hwy 10, Price, UT 84501	sbaggs@preciscom.com	435-820-4155
Qwestar	Gas	Kyle Secretan	1140 West 200 South PO Box 45360 SLC	kyle.secretan@qwestar.com	801-324-3970
Rocky Mountain Power	Electric	Gary Lawley	320 North 100 West Moab, UT 84532	g.lawley@pacificorp.com	435-259-3210

UTAH DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN

US-191; OVER COLORADO
RIVER BRIDGE - MOAB, UTAH

PROJECT NUMBER
BRF-0191(58)129

APPROVED

PROFESSIONAL ENGINEER

DATE

DRAWN BY

QC CHECKED BY

NO.

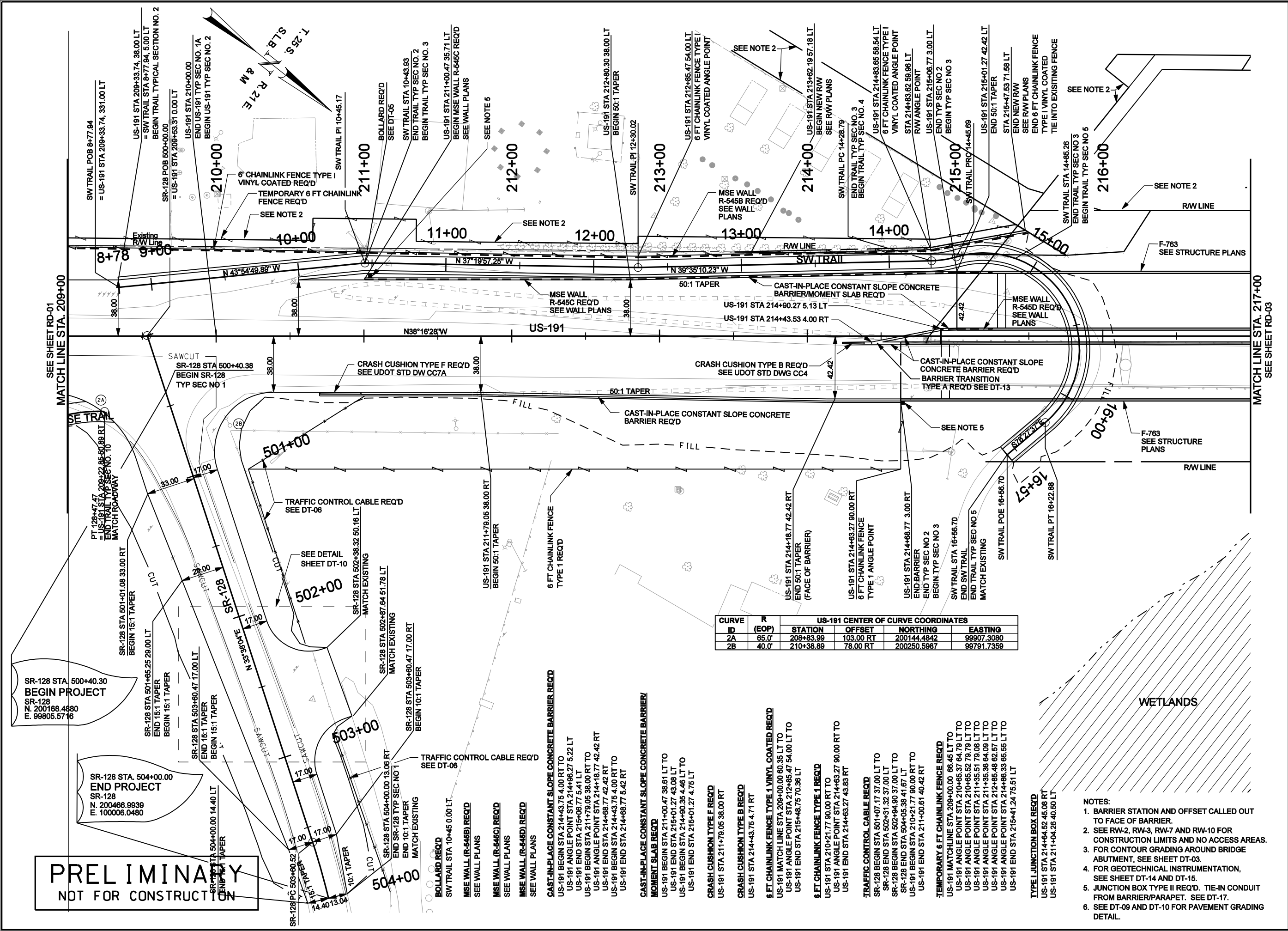
DATE

APPROVED BY

REMARKS

REVISIONS

SHEET NO. RD-01



UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS	
ROADWAY DESIGN			
PROJECT	US-191; OVER COLORADO	NO.	DATE
PROJECT NUMBER	RIVER BRIDGE - MOAB, UTAH	APPROVED BY	REMARKS
	BRF-0191(58)129		
ROADWAY PLAN SHEET		PROFESSIONAL ENGINEER	
		DATE	
		QC CHECKED BY	
		DRAWN BY	

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\ROADWAY DESIGN\5365_07_RD-03.DGN

PRELIMINARY
NOT FOR CONSTRUCTION

CURVE ID	R (EOP)	CENTER OF CURVE COORDINATES			
		STATION	OFFSET	NORTHING	EASTING
3A	5.0'	59+44.50	15.00 LT	201367.6702	98990.5660
3B	100.0'	58+63.04	110.00 LT	201249.9165	99045.3551

SEE SHEET RD-02
MATCH LINE STA. 217+00

WETLANDS

BOLLARD REQ'D
NW TRAIL STA 39+18.55 0.00 RT

COLORADO RIVER

R/W LINE

US-191

R/W LINE

SEE NOTE 2

COLORADO RIVER

F-763
SEE STRUCTURE PLANS

F-763
SEE STRUCTURE PLANS

SEE NOTE 2

NW TRAIL POB 39+08.55

BOLLARD REQ'D
SEE DT-05
NW TRAIL PC 39+89.03

COUNTY ROAD CR 276 STA 59+41.39 24.48 LT
= NW TRAIL STA 39+08.55
BEGIN TRAIL TYP SEC NO 9

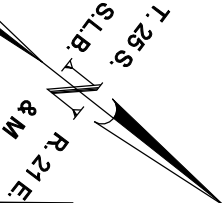
MATCH LINE COUNTY ROAD CR 276 57+50.00
SEE SHEET RD-07

Existing R/W Line

COUNTY ROAD CR 276
STA. 59+44.50 10.00 LT
BEGIN 16:1 TAPER

MATCH LINE
COUNTY ROAD CR 276
STA 60+00.00
SEE SHEET RD-04

MATCH LINE STA. 224+50
SEE SHEET RD-04

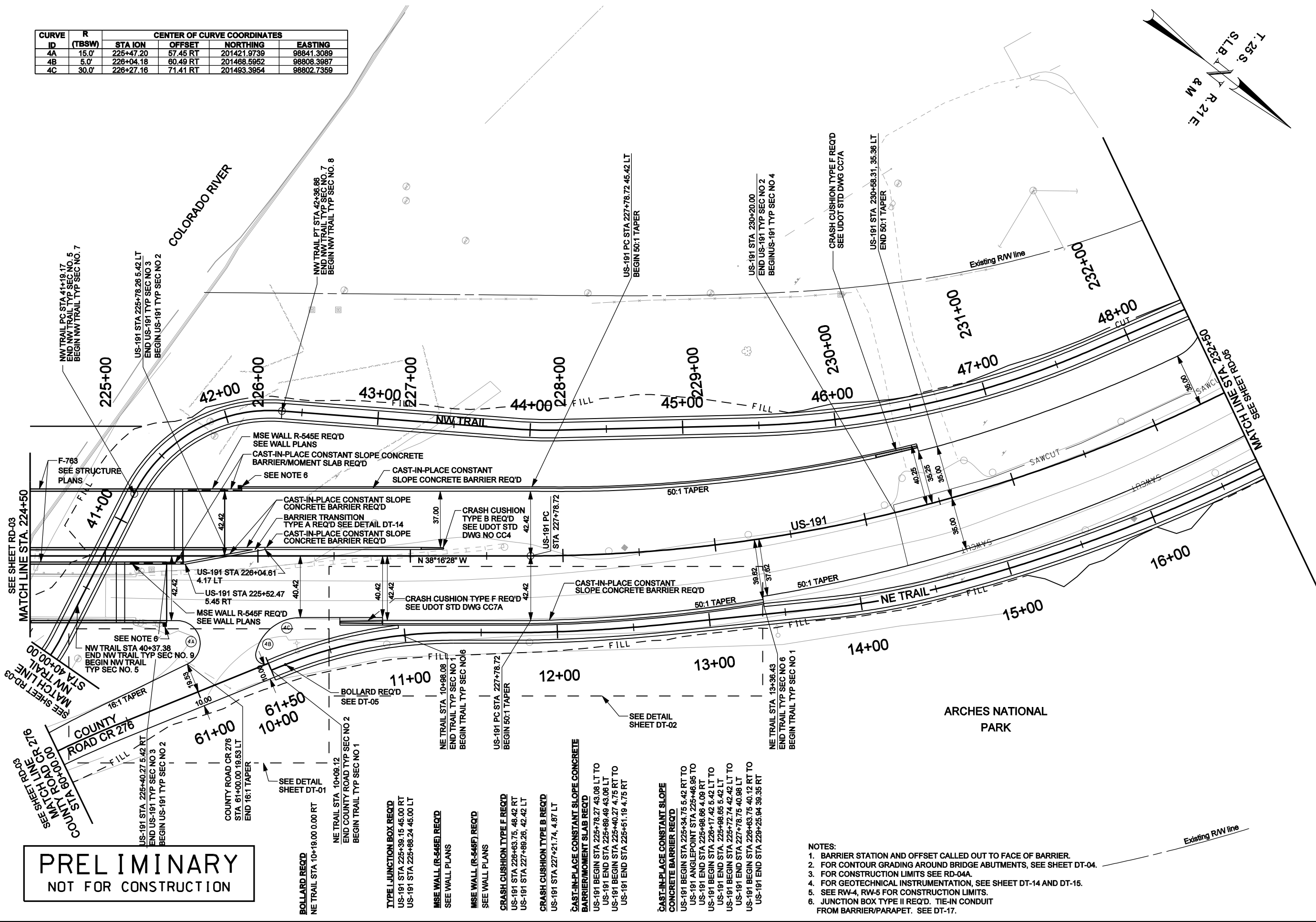


- NOTES:
- CENTER OF CURVE COORDINATES ARE REFERENCED FROM COUNTY ROAD ALIGNMENT.
 - SEE RW-3, RW-4 FOR CONSTRUCTION ACCESS/NO ACCESS AREAS.

SHEET NO. RD-03		US-191; OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN				REVISIONS			
PROJECT		RIVER BRIDGE - MOAB, UTAH									
PROJECT NUMBER		BRF-0191(58)129		APPROVED				DRAWN BY			
ROADWAY PLAN SHEET		PROFESSIONAL ENGINEER				DATE		QC CHECKED BY			
								NO.		DATE	
										APPROVED BY	
										REMARKS	

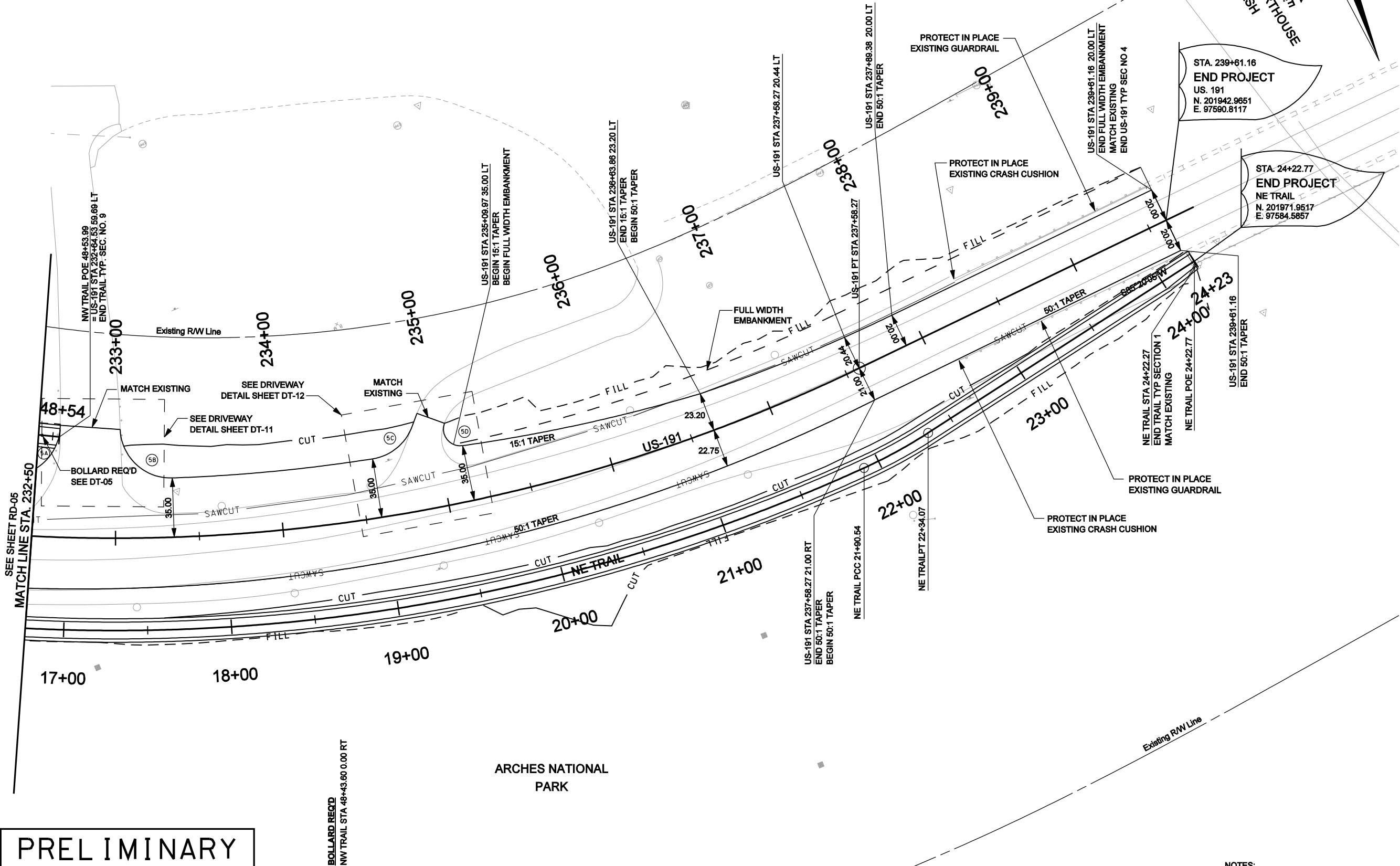
8/4/2008

CURVE		CENTER OF CURVE COORDINATES			
ID	R (TBSW)	STA ION	OFFSET	NORTHING	EASTING
4A	15.0'	225+47.20	57.45 RT	201421.9739	98841.3089
4B	5.0'	226+04.18	60.49 RT	201468.5952	98808.3987
4C	30.0'	226+27.16	71.41 RT	201493.3954	98802.7359

[illegible]

8/4/2008 \\FSS\LC03\2507-SLC-COLORADO_BRIDGE\5365_07\SHEET_FILES\ROADWAY_DESIGN\5365_07_RD-05.DGN

CURVE ID	R (TBSW)	CENTER OF CURVE COORDINATES			
		STATION	OFFSET	NORTHING	EASTING
5A	30.0'	232+32.73	65.32 LT	201792.7500	9827.38829
5B	30.0'	233+35.03	65.30 LT	201830.7075	98186.0167
5C	30.0'	234+59.31	65.27 LT	201864.7007	98074.8435
5D	10.0'	235+16.01	43.14 LT	201897.4106	98026.8817

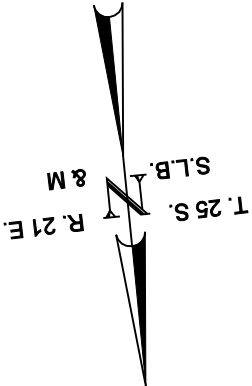
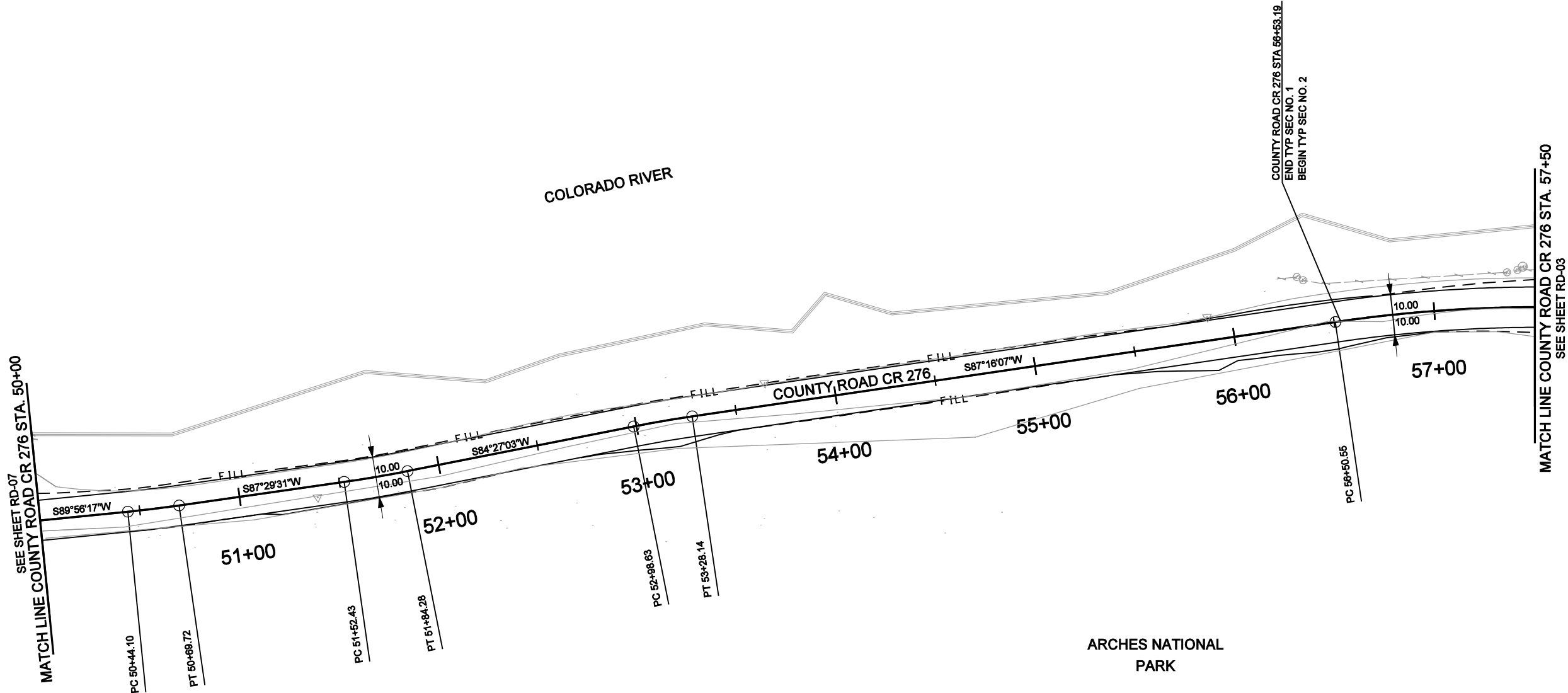


NOTES:
1. SEE RW-5, RW-6 FOR CONSTRUCTION ACCESS/NO ACCESS AREAS.

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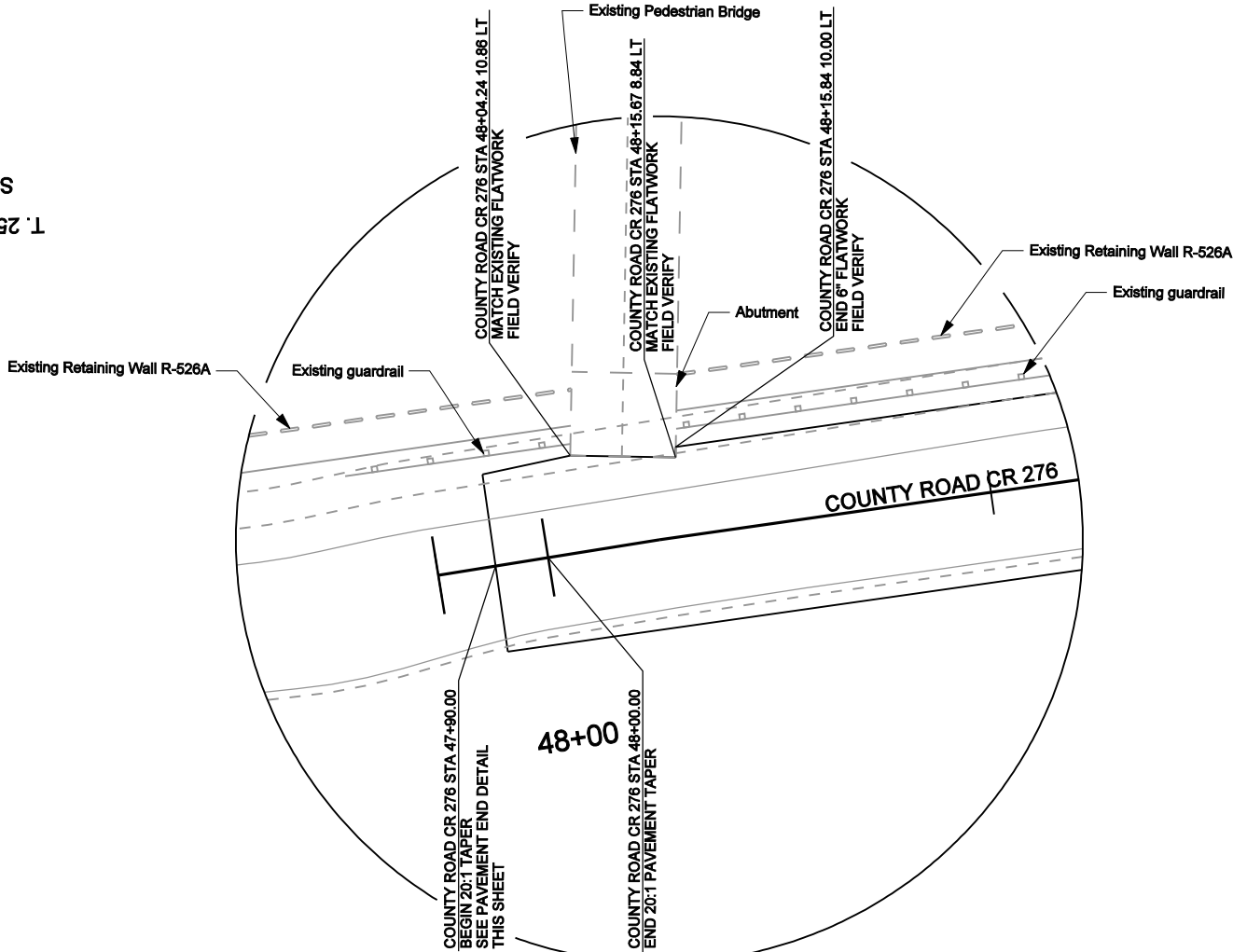
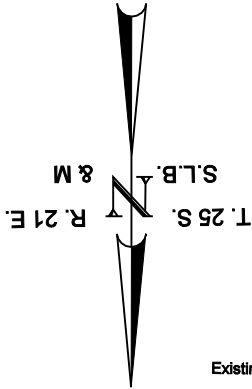
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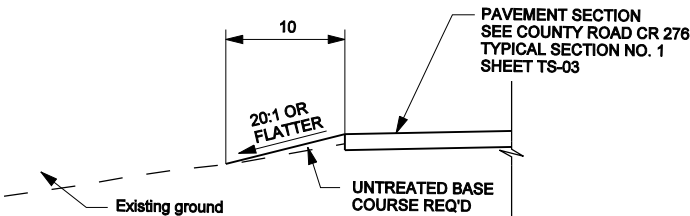
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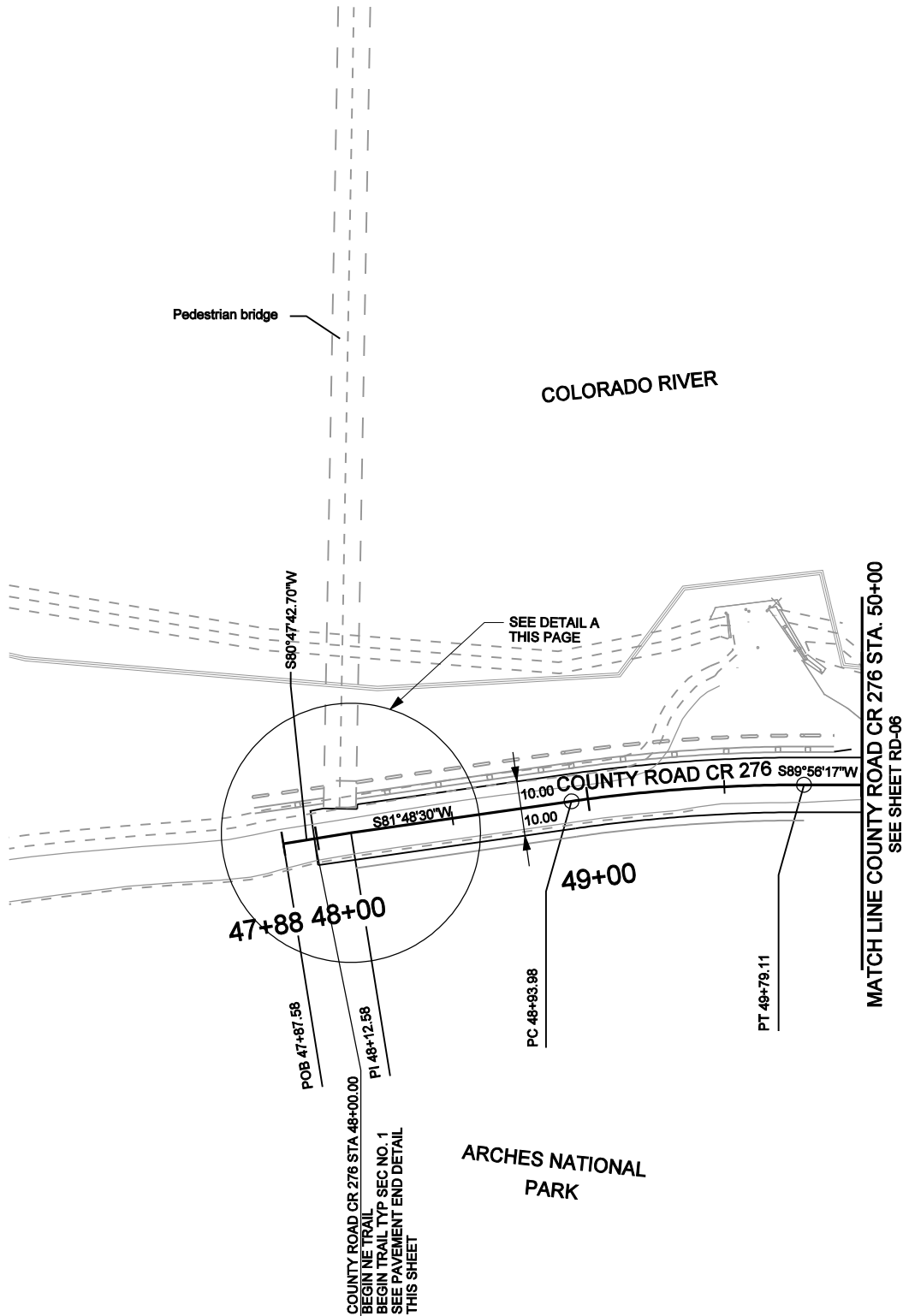
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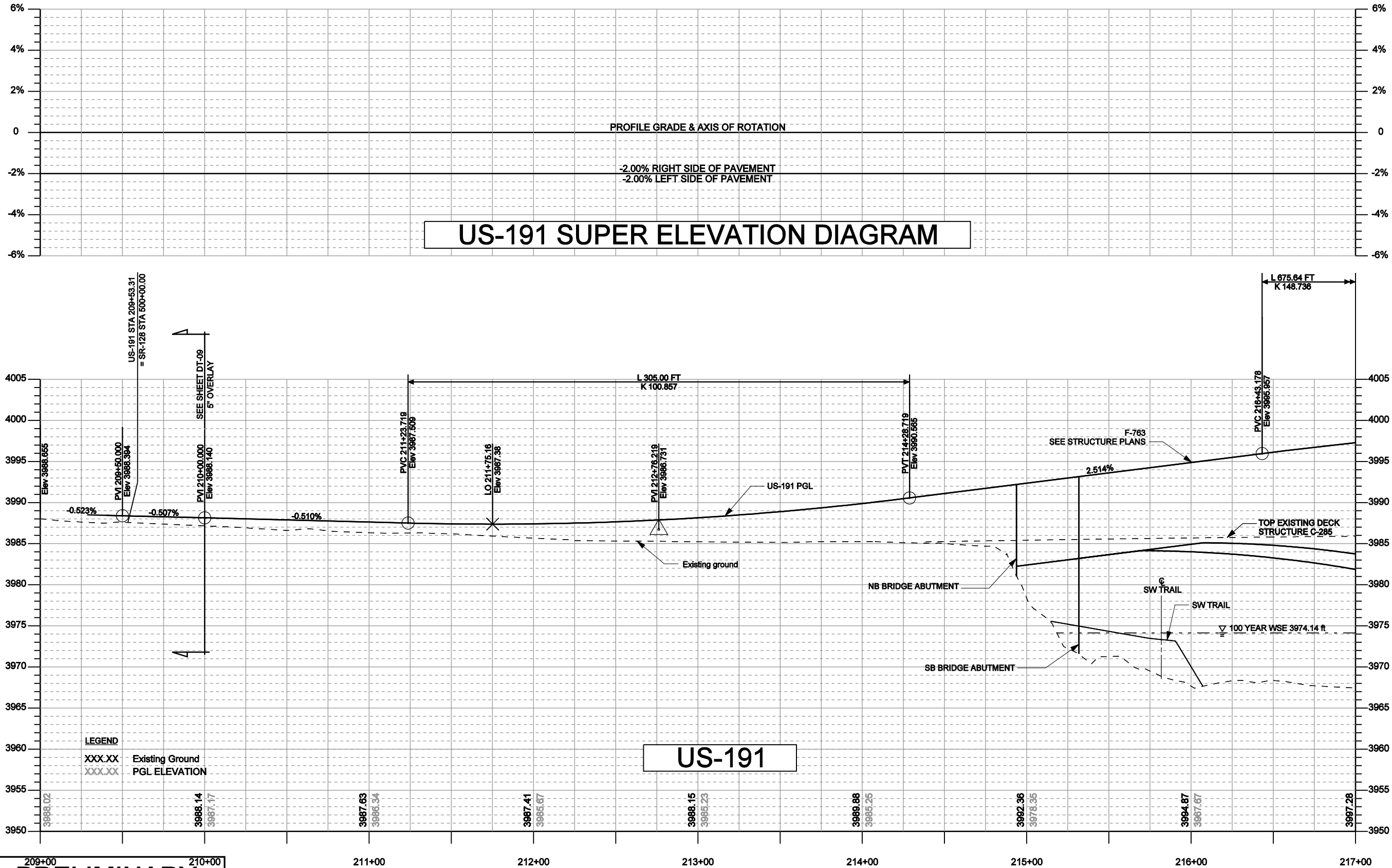
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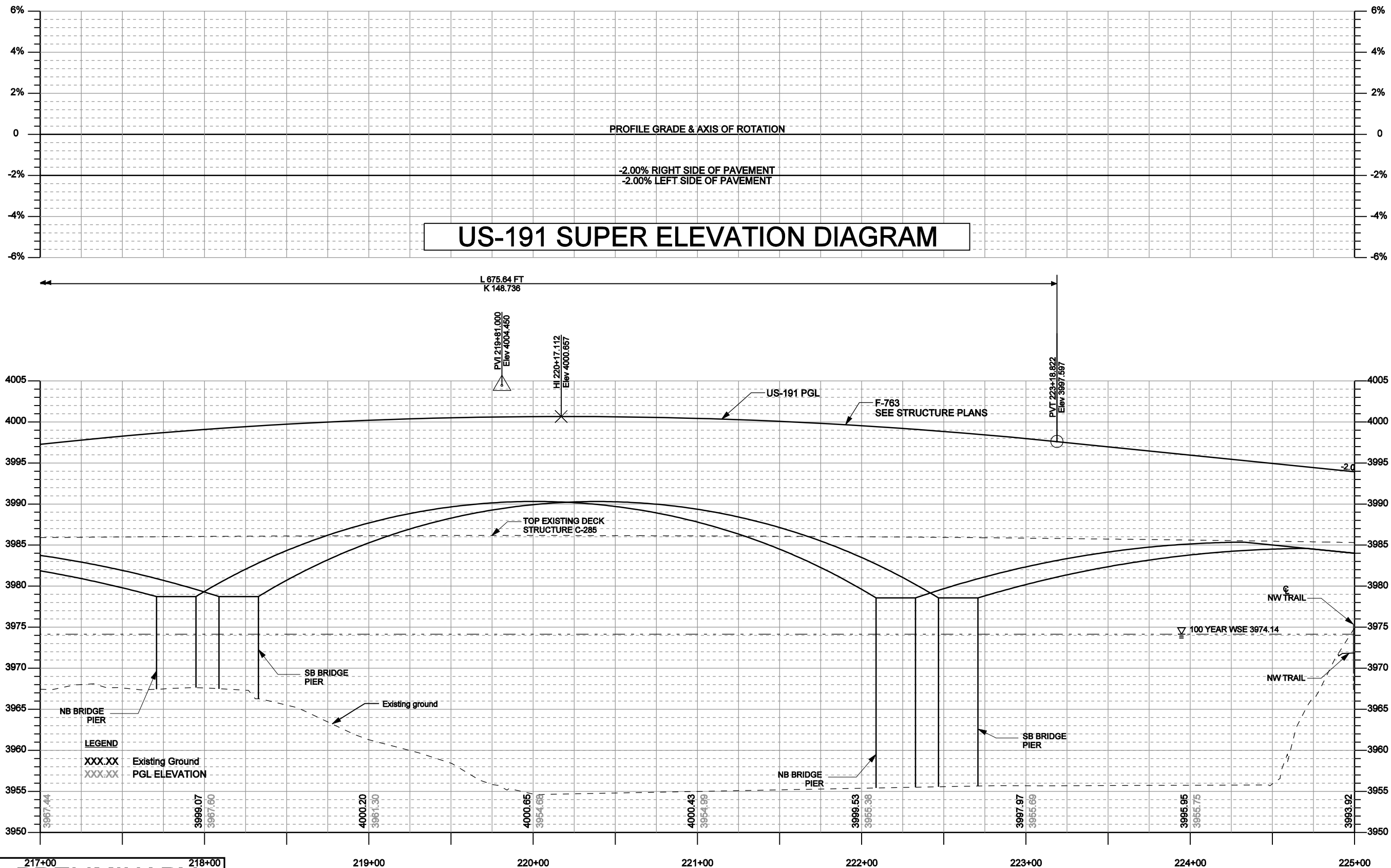
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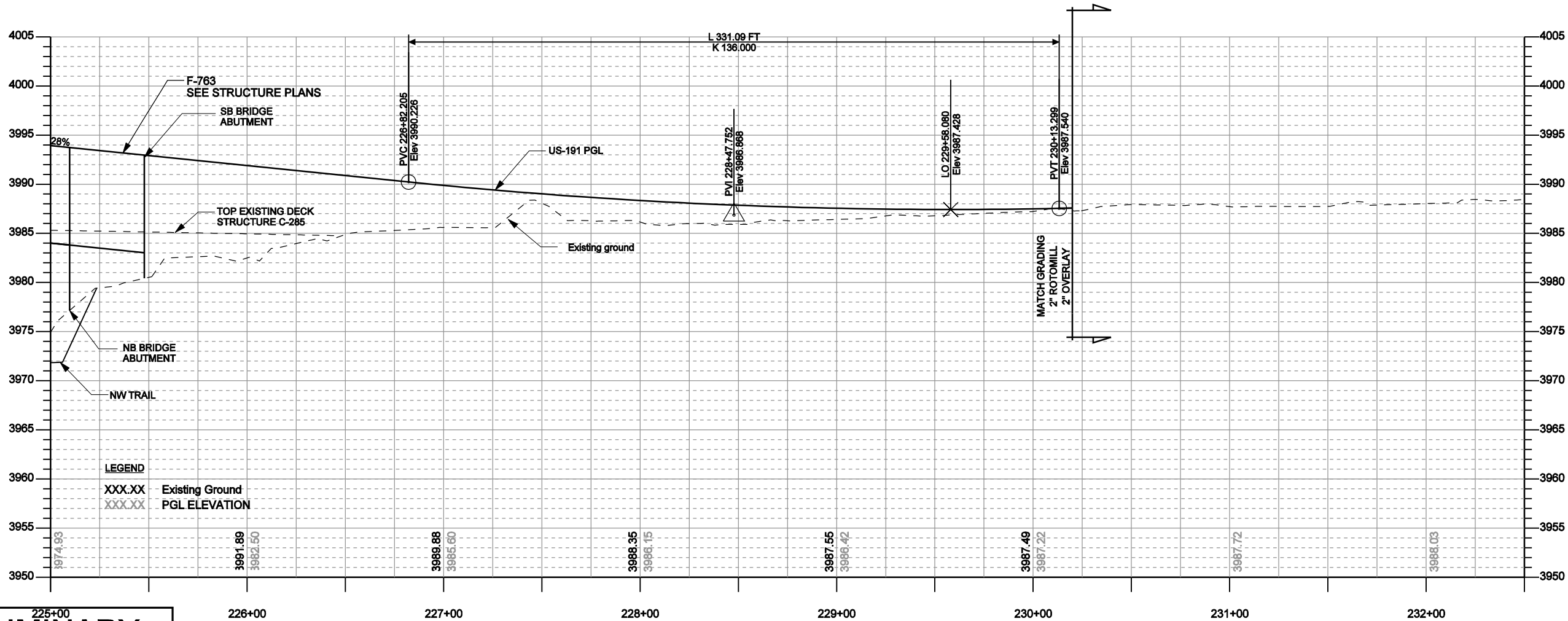
UTAH DEPARTMENT OF TRANSPORTATION			
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DRAWN BY		QC CHECKED BY	
12/11/2007		DATE	
PROFESSIONAL ENGINEER		APPROVED BY	
NO.		DATE	
REVISIONS		REMARKS	

US-191:OVER COLORADO	PROJECT
RIVER BRIDGE-MOAB, UTAH	PROJECT NUMBER
BRF-0191(58)129	PROJECT NUMBER
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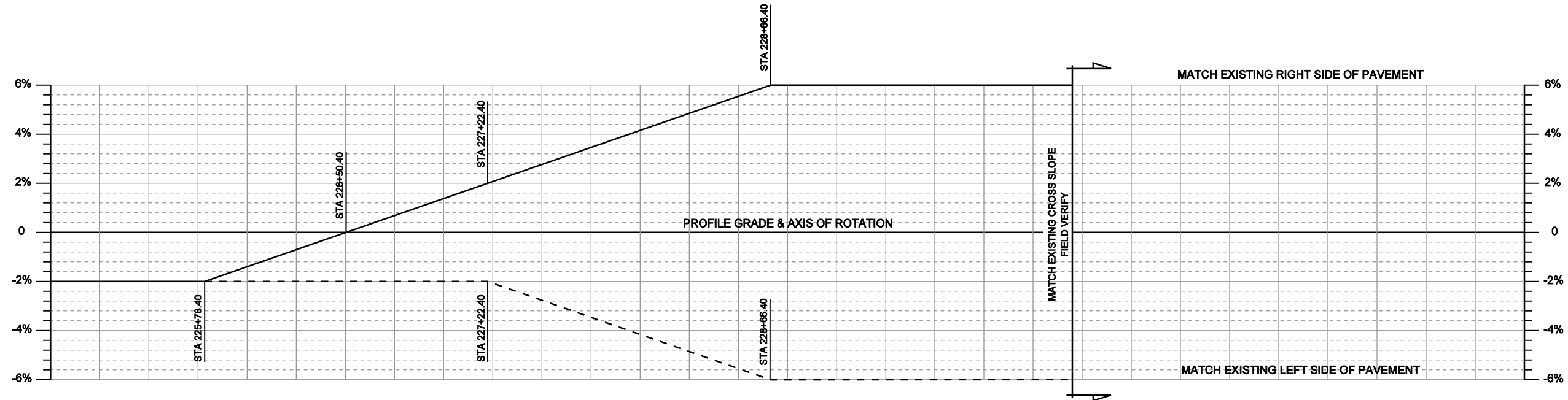
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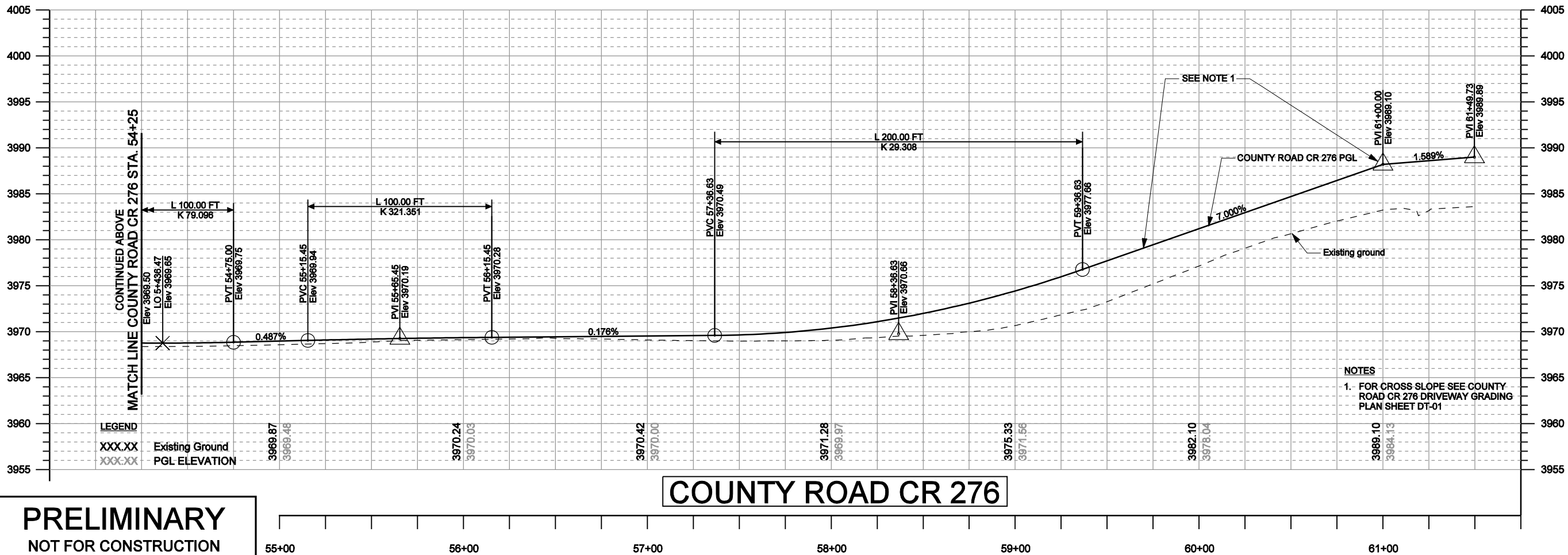
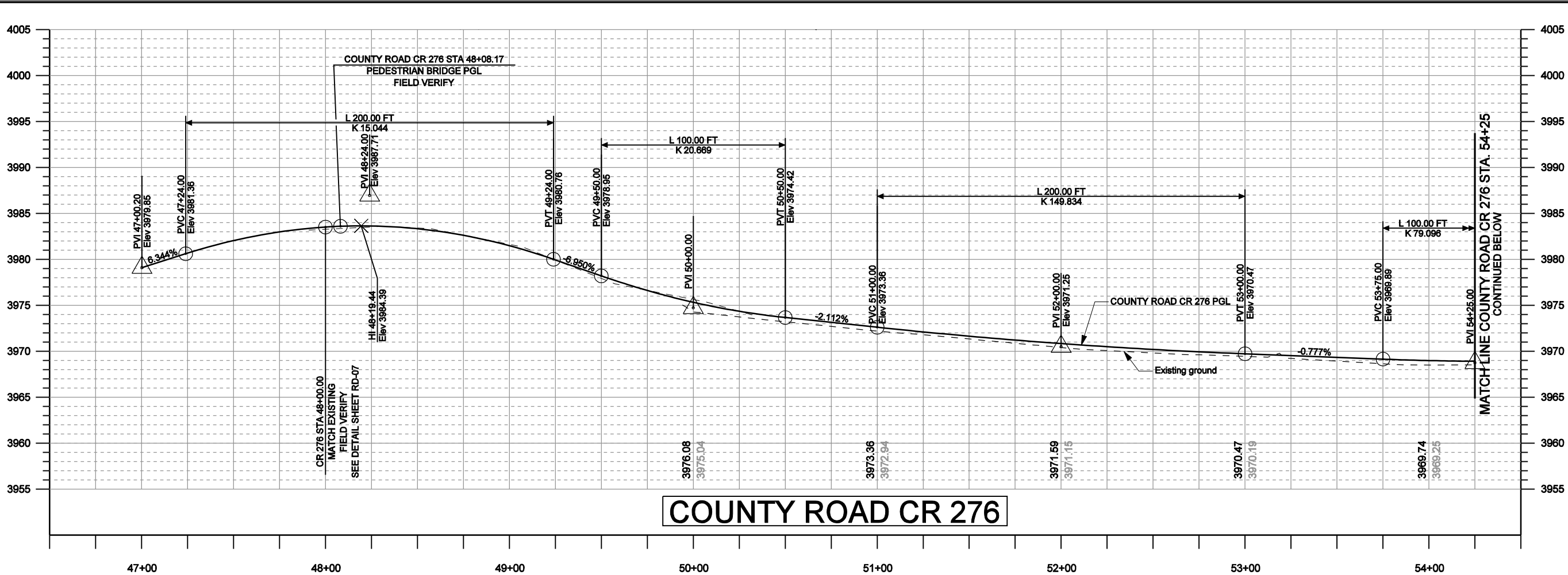


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SHEET NO. RP-03		US-191:OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION					REVISIONS			
		RIVER BRIDGE-MOAB, UTAH		ROADWAY DESIGN								
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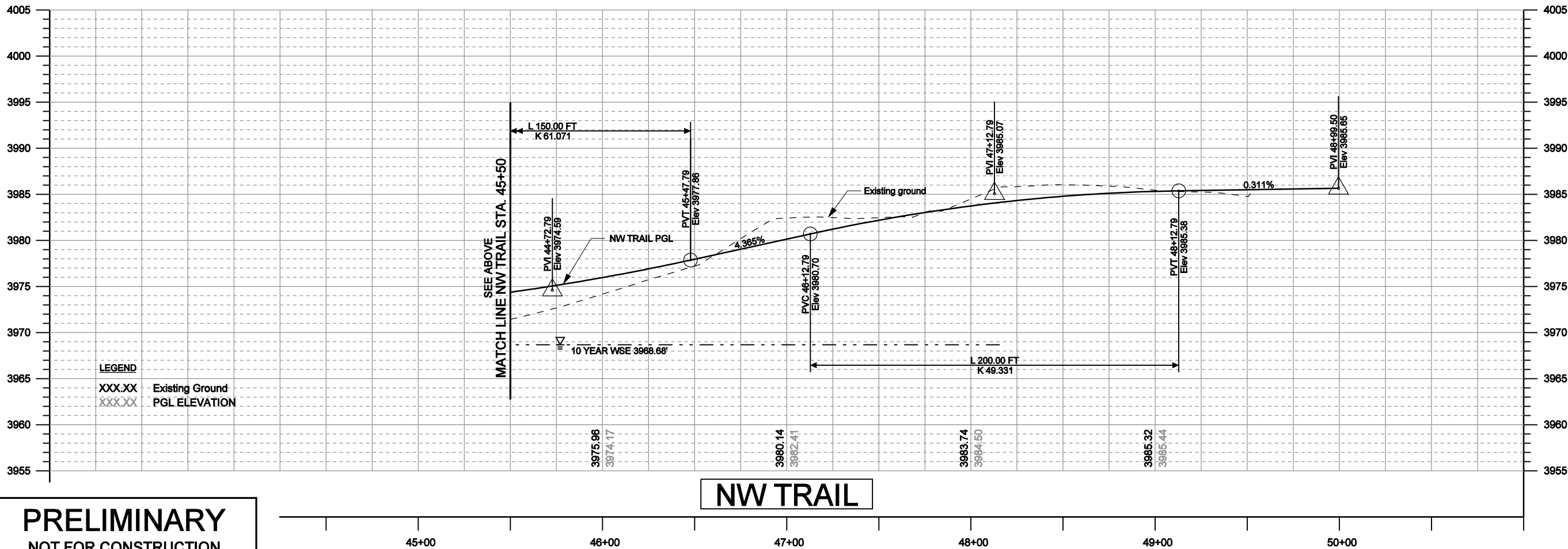
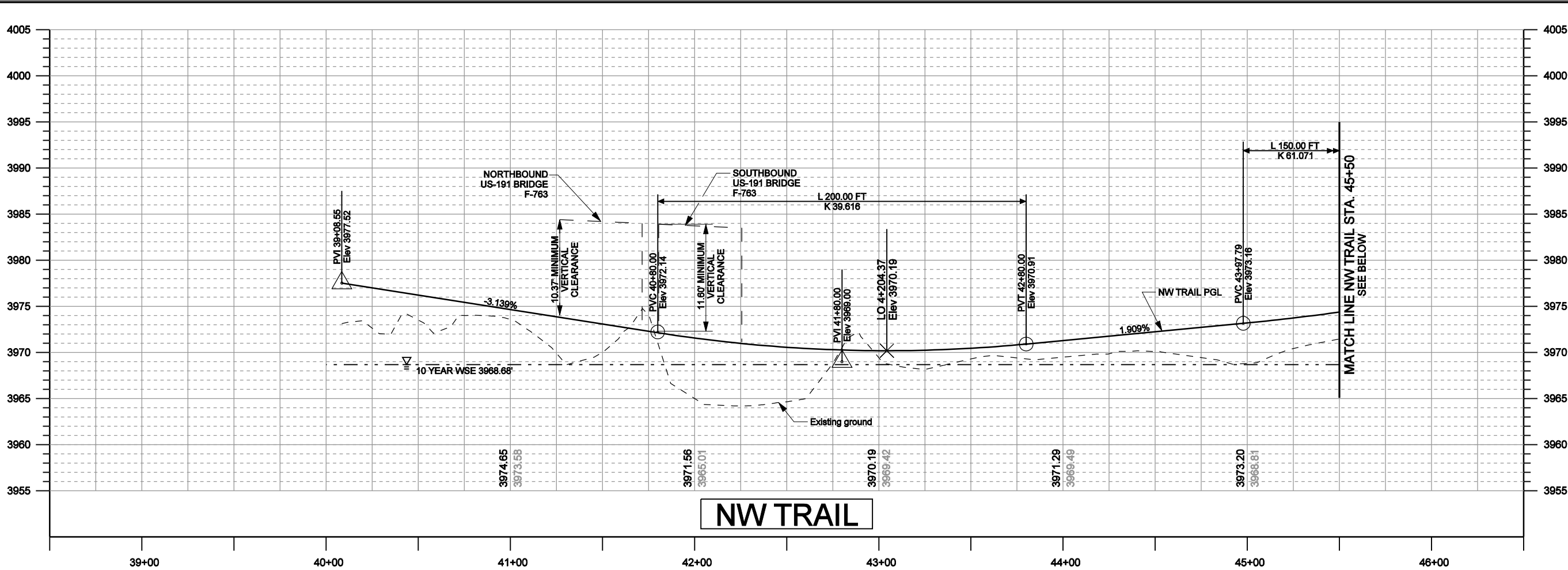
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SHEET NO.		US-191;OVER COLORADO		UTAH DEPARTMENT OF TRANSPORTATION				REVISIONS			
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PROJECT				APPROVED		DRAWN BY		XXX			
PROJECT NUMBER		BRF-0191(58)129				QC		CHECKED BY			
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PRELIMINARY
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PROJECT	US-191, OVER COLORADO			ROADWAY DESIGN										
	RIVER BRIDGE-MOAB, UTAH													
PROJECT NUMBER	BRF-0191(58)129			APPROVED					DRAWN BY					
TRAIL PROFILE				PROFESSIONAL ENGINEER					QC		APPROVED BY			
									CHECKED BY					
									12/11/2007		DATE			
											NO.		REMARKS	